Appendix J–1

Original Detailed Cost Estimate

INEEL
Idaho National Engineering & Environmental Laboratory

INTEROFFICE MEMORANDUM

Date:	August 15, 2000		
To:	M. S. Kaptein	MS 3953	526-3115
From:	T. R. Mitchell TRM	MS 3655	526-3864

Subject: TANK FARM INTERIM ACTION PHASE 1 & 2

Per your request, Estimating Services has prepared the attached Title II Cost Estimate for the Tank Farm Interim Action Phase 1 & 2 Project. The Total Estimated Cost (TEC) for construction is **$4,690,000.**

Included for your use is the Cost Estimate Summary and Detail sheets with the cost breakdowns. Also included are the Cost Estimate Recapitulation sheets describing the basis and assumptions used in the development of this estimate,

The Estimate is based on previously prepared estimate 2956-C, along with updated versions of sheets C-25, and C-11 of the A-E Construction Plans and Specifications for the Tank Farm Interim Action Phase 1 & 2 Project. Any changes or revisions in the construction package should be reviewed by Estimating Services for impacts to the cost of the project.

If you have any questions or comments, please do not hesitate to contact me at 526-3864 or E-mail ID MITCTR.

Attachments

cc: Estimate File 2956-D
T. R. Mitchell Letter Files (TRM-13-00)

Project Name:
TANK FARM *INTERIM ACTION PHASE 1 & 2*
Project Location: *INTEC*
Project Number: *2956-D*

TEC Summary Report

ESTIMATE ELEMENT	Estimate Subtotal	Escalation	Contingency	TOTAL
		3.40%	*13.94%*	
Total Estimated Cost (TEC)	$3,985,108	$135,320	$574,489	$4,694,917
		3.40%	13.94%	
Total Estimated *Cost* (TEC)	$3,985,108	$135,320	$574,489	$4,694,917
Rounded TEC (Rounded to the nearest $ 10000)				$4,690,000

	Remarks
Type of Estimate: TITLE II	
Estimator: ... HELL	
Checked By:	
Approved By:	

INEEL

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Bechtel BWXT Idaho, LLC

COST ESTIMATE SUPPORT DATA RECAPITULATION

Project Title: Tank Farm Interim Action Phase 1 & 2
Estimator: T. R. Mitchell
Date: August 15,2000
Estimate Type: Title II
File: 2956-D
Approved By:

I. SCOPE OF WORK. *Brief description of the proposed project.*

The scope of work for this project is to control INTEC Tank Farm surface water infiltration. This will be accomplished by paving certain areas with asphalt, installing a Poly Urea spray on coating in other designated areas, and constructing a concrete ditch system for transporting water into an evaporation pond that will be constructed outside the Tank Fann area. The work includes installation of a lift station, piping, and an HDPE membrane liner for the evaporation pond.

II. BASIS OF THE ESTIMATE: *Drawings, Design Report, Engineers Notes and/or other documentation upon which the estimate is originated.*

This estimate is based on a previously prepared estimate 2956-C, along with updated versions of sheets C-25, and C-11 of the A-E Construction Specifications and drawings for the OU3-13, Group 1, Tank Fann Interim Action Phase 1 & 2 Project.

III. ASSUMPTIONS: *Conditions statements accepted or supposed true without proof of demonstration. An assumption has a direct impact on total estimated cost.*

A. This project will be awarded to a subcontractor through the competitive bidding process.

B. Assume the Poly Urea spray on material will be sprayed to a thickness of 125 mil.

C. Assume the geotextile fabric will be placed up to the edge of all buildings and penetrations.

D. The spray on will be sprayed at least I foot up the penetration or building walls.

E. Assume there will be seven hours of productivity per day for the work being done inside the Tank Farm Fence.

F. Assume all work within the Tank **Farm** will not be affected by the load restrictions in the area.

G. Level C PPEs will need to be worn for work **being** done inside the **Tank** Farm Fence.

H. Stockpiles for excavated soil will need to be maintained only for soil removed from inside the Tank Farm Fence.

I. Assume 5% of the soil removed for the lift station will need to be boxed and hauled away.

J. Assume boxes for contaminated soil will be a GFE item that will be issued at no cost to the project.

IV. **CONTINGENCY GUIDELINE IMPLEMENTATION:** *The [illegible] contingency as determined b[illegible] th contingency allowance guidelines can be altered to reflect the type of construction and ondi[illegible]s that may in[illegible] a t the total estimated cost*

A contingency analysis **has** been performed to assess project risks. The main **risk** that would effect the cost of this project is the application of the Poly Urea spray on coating, **and** due to the excavation and grading that will take place, **Tank Farm** area contaminated soil is another major risk to the project. These **tasks** cover a major portion **of** the cost of **this** project, therefore contingency **has** been calculated to be **14%.**

V. **OTHER COMMENTS/CONCERNS SPECIFIC TO THE ESTIMATE**

A. This estimate includes the costs for training all of the anticipated workers. It is possible that some of the workers will already have been trained, and these costs could be reduced.

B. **Costs** for procurement and BBWI G&A allowance have been identified in the detail sheets of the construction estimate.

C. Costs for a full-time non-working supervisor have been included for a 20 week construction schedule.

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

Project Summary Report

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE It*

LEVEL		Estimete Subtotal	Escalation	Continaency	Contingency %	TOTAL
9000	**CONSTRUCTION**	**$3,888,518**	**$135,320**	**$574,489**	**14.28%**	**$4,598,327**
9100	**-CONSTRUCTION SUBCONTRACTS**	**$3,888,518**	**5135,320**	**5574,489**	**14.28%**	**$4,598,327**
9101	---GENERAL CONDITIONS	$192,690	$6,706	$23,927	12.00%	$223,323
9101.1	---GENERAL CONDITIONS	$117,009	$4,072	$14,530	12.00%	$135,610
9101.1.1	GENERAL CONDITIONS MECHANICAL	$8.003	5279	$994	12.00%	$9,275
9101.1.2	--------GENERAL CONDITIONS ELECTRICAL	$7.238	5252	$899	12.00%	$8,368
9101.1.3	--------GENERAL CONDITIONS - GENERAL CONTRACTOR	$101.766	$3,542	$12.637	12.00%	$117.947
9101.2	----GC .CONDUCT OF OPERATIONS/CONDUCT OF MAINTENANCE	$75,681	52,634	$9.398	12.00%	$87.713
9102	---SITEWORK	51,979,433	$68,884	$294,108	14.36%	52,342,425
9102.7	---DEMO FOR DITCHES	$13,080	$455	$1.624	12.00%	$15,160
9102.4	------EXC. & FILL FOR DITCH STRUCTURES	$514.134	517,692	$106.405	20.00%	$638,431
9102.8	------SITEWORK FOR POLY UREA PREPARATION	$228.659	$7,957	$35,492	15.00%	$272.109
9102.5	------INSTALL PIPES	$103.374	53,597	$12.837	12.00%	$119,808
9102.6	-----ASPHALT REPAIR	$9,447	$329	$1.173	12.00%	$10,948
9102.3	-----POND LINERS	5359.148	$12,498	$44.598	12.00%	$416,244
9102.1	-----CHAIN LINK FENCING	$61,951	$2,156	$6.411	10.00%	$70.517
9102.2	------REVEGETATION	$3,329	$116	$344	10.00%	$3,789
	------ASPHALT PAVING OF TANK FARM PERIMETER AREAS	$686,311	$23,884	$85,223	12.00%	$795,418
9103	---CONCRETE	$250,097	$8,703	$31,056	12.00%	$289,856
9103.01	------CONC. FOR DITCH STRUCTURES	5207.937	$7,236	$25.821	12.00%	$240,994
9103.02	-----PRECAST CONC FOR DITCHES	$41.220	51,434	$5,118	12.00%	547.773
9103.3	---.--CONCRETE PAD AT SPILLWAY	$941	$33	$117	12.00%	$1,090

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: ***INTEC***
Estimate Number: ***2956-D***

Project Summary Report

Client ***M. S. UAPTEIN***
Prepared By: ***T. R. MITCHELL***
Estimate Type: ***TITLE II***

LEVEL		Estimate Subtotal	Escalation	Contingency	Continaency %	TOTAL
9105	---METALS	$2,358	$82	$293	12.00%	$2,733
9105.01	------MISC METALS	$2,358	$82	$293	12.00%	$2,733
9109	-FINISHES	$1,395,396	$48,560	$216,593	15.00%	$1,660,550
9109.1	------POLY UREA SPRAY-ON COATING	$1,395,396	$48,560	$216,593	15.00%	$1,660,550
9115	--MECHANICAL	$26,447	$920	$3,284	12.00%	$30,652
9115.1	---*-INSTALL PUMPS IN LIFTSTATION	$26,447	$920	$3,284	12.00%	$30,652
9116	—ELECTRICAL	$42,096	$1,465	$5,227	12.00%	$48,788
9116.1	------SWITCHGEAR and DEVICES	$5,521	$192	$686	12.00%	$6,399
9116.2	-----RACEWAYS AND ENCLOSURES	$6,473	$225	$804	12.00%	$7.502
9116.3	------CONDUCTORS AND GROUNDING	$7.585	$264	$942	12.00%	$8,791
9116.4	------DUCTBANK	$7,247	$252	$900	12.00%	58,399
9116.5	-----TESTING	$611	$21	$76	12.00%	$706
9116.6	------REPAIR CATHODIC PROTECTION	$14.659	$510	$1.620	12.00%	$16,969
GAPIF	Non-Org G&A and PIF	$96,590	$0	$0	0.00%	$96,590
Total	TEC (TOTAL ESTIMATED COST)	53,985,108	$135,320	$574,489	13.94%	54,694,917

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. UAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL / Org/Subcontractor		QTY		Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
9101.1.1 GENERAL CONDITIONS											
PIPE		U.C. per HRS		1	CN-PIPF	42.95	0	0	0	0	42.95
Supervision			80.00	80	$42.95	53,436	$0	$0	$0	$0	$3,436
PIPE		U.C. per Men		24	CN-PIPE	943.92	0	0	0	0	943.92
Training			2.00	48	$39.33	$1,888	$0	$0	$0	$0	$1,888
PIPE		U.C. per Lot		8	CN-PIPE	314.64	0	0	0	0	314.64
Mobilization 8 Demobilization			1.00	8	$39.33	5315	$0	$0	$0	$0	$315
Subtotal						$5,638	$0	$0	$0	$0	$5.638
Sales Tax						$0	$I	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads						$2,364	$0	$0	$0	$0	$2,364
Subtotal Estimate											$8,003
Escalation						$278	$0	$0	$0	$0	$278
Contingency						$994	$0	$0	$0	$0	$994
Total 9101.1.1 GENERAL CONDITIONS MECHANICAL				136		$9,275	$0	to	$0	$0	$9,275
9101.1.2 GENERAL CONDITIONS ELECTRICAL											
ELEC		U.C. per HRS		1	CN-ELCF	38.62	0	0	0	0	38.62
Supervision			80.00	80	$38.62	$3,090	$0	$0	$0	$0	$3,090
ELEC		U C. per Men		24	CN-ELEC	861.36	0	0	0	0	861.36
Training			2.00	48	$35 99	$1.723	$0	$0	$0	$0	$1,723
ELEC		U.C. per Lot		8	CN-ELEC	287.12	0	0	0	0	287.12
Mobilization8 Demobilization			1.00	8	$35.89	$287	$0	$0	$0	$0	$287
Subtotal						$5,099	$0	$0	$0	$0	$5.099
Sales Tax						$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads						$2.138	$0	$0	$0	$0	$2,138
Subtotal Estimate											$7,238
Escalation						$252	$0	$0	$0	$0	5252
Contingency						$899	$0	$0	$0	$0	$899
Total 9101.1.2 GENERAL CONDITIONS ELECTRICAL				136		$8,388	$0	$0	$0	$0	$8,388
9101.1.3 GENERAL CONDITIONS - GENERAL CONTRACTOR											
GEN		U.C. per Wk		40	CN-SUPR	1600	0	0	0	0	1600
Supervision			20.00	800	$40.00	$32,000	$0	$0	$0	$0	$32,000
GEN		U.C. per Men		24	CN-LABR	757.92	0	0	0	0	757.92
Training Fw Tank Farm			8.00	192	$31.58	$6,063	$0	$0	$0	$0	$6,063
GEN		U.C. per Men		8	CN-LABR	252.64	0	0	0	0	252.64
Training For Remainder of Craw			7.00	58	$31.56	$1.768	$0	$0	$0	$0	$1,768
GEN		U.C. per Lot			CN-LABR	0	0	0	0	20000	20000
Mobilization 8 Demobilization			1.00	0		$0	$0	$0	$0	$20,000	$20,000

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE I*

LEVEL Org/Subcontractor		QTY		Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
— 9101.1.3 GENERAL CONDITIONS - GENERAL CONTRACTOR											
GEN	U.C. per Ea			20	CN-LABR	631 6	0	0	0	0	631 6
Misc. Outages			6.00	120	$31.58	$3,790	$0	$0	$0	$0	$3.790
GEN	U.C. per lot					0	0	0	19750	0	19750
Allowance lor Hand Tools and Consumables at (3% of Labor)			1.00	0		$0	$0	$0	$19,750	$0	$19.750
Subtotal						$43,621	$0	$0	$19.750	$20,000	$83.371
Sales Tax						$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads						$12,663	$0	$0	$5.733	$0	$18.397
Subtotal Estimate											$101,768
Escalation						$1,959	$0	$0	$887	$696	$3,542
Contingency						$6.989	$0	$0	$3,164	$2,484	$12,637
— Total 8101.1.3 GENERAL CONDITIONS - GENERAL CONTRACTOR				1,168		$65,233	$0	$0	$29,535	$23,180	5117,847
— 9101.2 GC - CONDUCT OF OPERATIONS/CONDUCT OF MAINTENANCE											
GEN	U.C. per Wk			20	CN-SUPR	800	0	0	0	0	800
Added Supervision			20.00	400	$40.00	$16,000	$0	$0	$0	$0	$16,000
GEN	U.C. per Men			4	CN-LABR	126.32	0	0	0	0	126.32
Additional Training			6.00	24	$31.58	$758	$0	$0	$0	$0	$758
GEN	U.C. per Hr			1	CN-LABR	31.58	0	0	0	0	31.58
Labor Impact - 10%			1,200.00	1,200	$31.58	$37,896	$0	$0	$0	$0	$37,896
GEN	U.C. per Hr			10	CN-SUPR	400	0	0	0	0	400
Post Job Review			10.00	100	$40.00	$4,000	$0	$0	$0	$0	$4,000
Subtotal						$58,654	$0	$0	$0	$0	$58,654
Sales Tax						$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads						$17.027	$0	$0	$0	$0	$17.027
Subtotal Estimate											$75,681
Escalation						$2,634	$0	$0	$0	$0	$2,634
Contingency						$9,398					$9,398
— Total 9101.2 GC - CONDUCT OF OPERATIONS/CONDUCT OF MAINTENANCE				1,724		$87,713	$0	$0	$0	$0	$87,713
— 9102.7 DEMO FOR DITCHES											
CONC	U.C. per Hr			2	CN-LABR	63.16	0	0	0	0	63.16
Demo dry well near CPP-649 (labors)			20.00	40	$31.58	$1.263	$0	$0	$0	$0	$1,263
CONC	U.C. per Hr			1	CN-EQLT	33.91	30	0	0	0	63.91
Demo dry well near CPP-649 (hoe)			20.00	20	$33.91	$678	$600	$0	$0	$0	$1,278
CONC	U.C. per hr			3	CN-LABR	94.74	0	0	0	0	94.74
Remove catch basin near CPP-649 (labors)			30.00	90	$31.58	$2.842	$0	$0	$0	$0	$2,842

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Project Name:
TANK FARM INTERIM ACTION PHASE 1& 2
Project Location: ***INTEC***
Estimate Number: ***2956-D***

CONSTRUCTION RETAIL ITEM REPORT

Client: ***M. S. KAPTEIN***
Prepared By: ***T. R. MITCHELL***
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
--- 9102.7 DEMO FOR DITCHES									
CONC	U.C. per hr	1	CN-EQLT	33.91	30	0	0	0	63.91
Remove catch basin near CPP-649 (hoe)	30.00	30	533.91	$1,017	$900	$0	$0	$0	$1.917
CONC	U.C. per hr	2	CN-LABR	63.16	0	0	0	0	63.16
Remove 12' CMP near CPP-649 (labors)	10.00	20	$31.58	$632	$0	$0	$0	$0	$632
CONC	U.C. per hr	1	CN-EQLT	33.91	30	0	0	0	63 91
Remove 12"CMP near CPP-649 (hoe)	10.00	10	$33.91	$339	$300	$0	$0	$0	$639
CONC	U.C. per hr	1	CN-TRLT	32.42	32	0	0	0	64.42
Haul material to bulky waste	10.00	10	$32.42	$324	$320	$0	$0	$0	$644
Subtotal				$7.096	52.120	$0	$0	$0	$9,216
Sales Tax				$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads				52.975	$889	50	$0	$0	53.864
Subtotal Estimate									$13.080
Escalation				$350	$105	$0	$0	$0	$455
Contingency				$1,251	$374	$0	$0	$0	$1,624
--- Total 9102.7 DEMO FOR DITCHES		220		$11,672	$3,487	$0	$0	$0	$15,160
--- 9102.4 EXC 6 FILL FOR DITCH STRUCTURES									
Memo: ***Unit prices were developed with another program and transfered to success.***									
GEN	U.C. per cy			18.75	14.9	0	0	0	33.65
Excavate for lift station	1,270.00	0		$23.813	$18.923	$0	$0	$0	$42.736
Memo: Inside Tank Farm									
GEN	U.C. per cy			8.34	3.77	0	0	0	12.11
Backfill lift station	1,270.00	0		$10,592	54.788	$0	$0	$0	$15,380
GEN	U.C. per cy	8	CN-LABR	252.64	0	0	0	0	252 64
Boxing Contaminated Dirt from Lift Station (5% of total)	64.00	512	$31.58	$16.169	$0	$0	$0	$0	$16,169
GEN	U.C. per sf			0	0	0	0.1	0	0.1
Maintain Excavaled Soil from Llft Station Area	20,000.00	0		$0	$0	$0	$2,000	$0	$2,000
GEN	U.C. per cy			8.63	1.96	0	0	0	10.59
Excavation for ditches	1,170.00	0		$10,097	$2,293	$0	$0	$0	$12.390
GEN	U.C. per cy			18.75	14.96	0	0	0	33 71
Excavation for pipes Inside Tank Farm Fence	2,100.00	0		$39,375	$31,416	$0	$0	$0	$70,79 I
GEN	U.C. per cy			8.34	3.77	0	0	0	12 11
Backfill pipes inside Tank Farm Fence	2,100.00	0		$17,514	$7,917	$0	$0	$0	$25,431
GEN	U.C. per cy			1.85	1.5	0	0	0	3 35
Excavalion lor 48' CMP Outside Tank Farm Fence	11,130.00	0		$20,591	$16,695	$0	$0	$0	$37,286
GEN	U.C. per cy			4.46	1.82	0	0	0	6 28
Backfill 48" CMP Outside Tank Farm Fence	11.130.w	0		$49,640	$20.257	$0	$0	50	$69,896

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor		QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
-- 9102.4 EXC. & FILL FOR DITCH STRUCTURES										
Memo: *Unit ~ ~ were developed with another program and transfered to success.*										
GEN	U.C. per Ea		40	CN-LABR	1263 2	0	0	0	0	1263 2
Hand Excavate under utility tunnel		1.00	40	$31.58	$1.263	$0	$0	$0	$0	$1,263
GEN	U.C. per Ea		20	CN-LABR	631.6	300	0	0	0	931.6
Temp supports for utilities		3.M)	60	$31.58	51,895	$900	$0	$0	$0	$2,795
GEN	U.C. per sf				0.009	0.006	0	0	0	0014
Clear and Grub lor Pond Excavation		210,600.00	0		$1,611	$1,200	$0	$0	$0	$3,012
Memo: Outside Tank Farm Fence										
GEN	U.C. per cy				0.69	1.12	0	0	0	1.81
Excavation for Evaporation Pond		52,000.00	0		$35,880	$58,240	$0	$0	$0	$94,120
GEN	U.C. per cy				7.08	4.5	0	0	0	11.58
Excavate Small Trenches for HDPE Liner		255.00	0		$1.805	$1,148	$0	$0	$0	$2,953
GEN	U.C. per Cy				1.72	1.06	0	0	0	2.78
Backfill & Compact Trenches for HDPE Liner		255.00	0		$439	$270	E0	$0	$0	$709
GEN	U.C. per Ea				0	0	0	650	0	650
Telephone Pole for Staff Gauge		1.00	0		$0	$0	$0	$650	$0	$650
GEN	U.C. per Ea				0	0	0	635	0	635
Staff Gauge		1.00	0		$0	$0	$0	$635	$0	$635
GEN	U.C. per Cy				0.45	0.88	0	0	0	1.33
Excavate Drainage Ditch For Pond Overflow		185.00	0		$83	$163	$0	$0	$0	$246
Subtotal					$230,966	$164,210	E0	53,285	E0	$398.461
Sales Tax					$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads					$67.049	$47.670	$0	$954	$0	$115.673
Subtotal Estimate										$514.134
Escalation					510.371	37.373	$0	$148	$0	$17.892
Contingency					$81.677	$43.651	$0	$877	$0	$106,405
--Total 9102.4 EXC. 6 FILL FOR DITCH STRUCTURES			612		$370,064	$263.104	$0	$5.263	$0	$638,431
-- ITE . ORK FOR POLY UREA PREPARATION										
GEN	U C per Ea		30	CN-IRON	1305	0	300	0	0	1605
Engineered Bridges at Duct Banks		5.00	150	$43.50	$8.525	$0	$1.500	$0	$0	$8 025
Memo Inside Tank Farm										
GEN	U.C. per Ea		2	CN-IRON	67	0	0	0	0	87
Move Each Bridge 3 times		15.00	30	$43.50	$1,305	$0	$0	$0	$0	$1,305
GEN	U.C. per Ea		2	CN-IRON	87	0	0	0	0	67
Remove and Dispose of Bridges		5.00	10	$43.50	$435	$0	$0	$0	$0	$435

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
--- 9102.8 SITEWORK FOR POLY UREA PREPARATION									
GEN	U.C. per SF	0.02	CN-LABR	0.632	0	0	0	0	0.632
Regrade Site w/Hand Labor and Equipment	180,000.00	3,600	$31.58	$113,688	$0	$0	$0	$0	$113,688
Memo: Inside Restricted Load Area									
GEN	U.C. per SF	0.01	CN-LABR	0.316	0	0	0	0	0.316
Regrade Site w/Equipment	170,000.00	1,700	$31.58	$53,686	$0	$0	$0	$0	$53,686
Memo: Outside Restricted Load Area									
Subtotal				$175,639	$0	$1,500	$0	$0	$177,139
Sales Tax				$0	$0	$75	$0	$0	$75
INEEL ORG Labor/Subcontractor Overheads				$50,988	$0	$457	$0	$0	551,445
Subtotal Estimate									5228,659
Escalation				$7,867	$0	$71	$0	$0	67.957
Contingency				$35,177	$0	$315	$0	$0	$35,492
--- Total 9102.8 SITEWORK FOR POLY UREA PREPARATION		5,490		$269,691	$0	$2,416	$0	$0	$272,109
--- 9102.5 INSTALL PIPES									
PIPE	U.C. per lf	0.25	CN-PIPE	9.632	0	4.65	0	0	14.482
4" Galvanized	45.00	11	$39.33	$442	$0	$209	$0	$0	$652
GEN	U.C. per lt	0.15	CN-LABR	4.737	0	2.45	0	0	7.187
8" WC	370.00	56	$31.58	$1,753	$0	$907	$0	$0	$2.659
GEN	U.C. per lf	0.2	CN-LABR	6.316	0	5.4	0	0	11.716
12" PVC	55.00	11	$31.58	$347	$0	$297	$0	$0	$644
GEN	U.C. per lf	0.2	CN-LABR	6,316	0	12.4	0	0	18.716
12" CMP	50.00	10	$31.58	$316	$0	$620	$0	$0	$936
GEN	U.C. per lf	0.24	CN-LABR	7.579	0	13.5	0	0	21.079
18" CMP	55.00	13	$31.58	$417	$0	$743	$0	$0	$1.159
GEN	U.C. per lf	0.32	CN-LABR	10.106	0	25.5	0	0	35.606
24" CMP	65.00	21	$31.58	$657	$0	$1.658	$0	$0	$2.314
GEN	U.C. per lf	0.42	CN-LABR	13.264	0	26.5	0	0	39.764
30" CMP	40.00	17	$31.58	$531	$0	$1,060	$0	$0	$1,591
GEN	U.C. per lf	0.45	CN-LABR	14.211	0	47	0	0	61.211
32" CMP	55.00	25	$31.58	$782	$0	$2,585	$0	$0	$3.367
GEN	U.C. per lf	0.45	CN-LABR	14.211	0	47	0	0	61.211
36" CMP	100.00	45	$31.58	$1,421	$0	$4,700	$0	$0	$6,121
GEN	U.C. per lf	0.5	CN-LABR	15.79	0	62.5	0	0	76.29
48" CMP	640.00	320	$31.58	$10,106	$0	$40,000	$0	$0	$50,106

Project Name:
TANK FARM INTERIM ACTION PHASE 1 a 2
Project Location: ***INTEC***
Estimate Number: ***2956-D***

CONSTRUCTION DETAIL ITEM REPORT

Client: ***M. S. KAPTEIN***
Prepared By: ***T. R. MITCHELL***
Estimate Type: ***TITLE II***

LEVEL Org/Subcontractor		QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
— 9102.5 INSTALL PIPES										
GEN	U.C. per lf		035	CN-LABR	11 053	0	26	0	0	37.053
28x20" CMP		20500	72	$31.58	$2,266	$0	$5,330	$0	$0	$7,596
Subtotal					$19.037	$0	$58,108	$0	$0	$77,145
Sales Tax					$0	$0	$2.905	$0	$0	$2.905
INEEL ORG Labor/Subcontractor Overheads					$5.583	$0	$17.740	$0	$0	$23,324
Subtotal Estimate										$103.374
Escalation					$857	$0	$2,741	$0	$0	$3,597
Contingency					$3,057	$0	$9.779	$0	$0	$12.837
— Total 9102.5 INSTALL PIPES			600		$28,534	$0	$91,274	$0	$0	$119,808
— 9102.6 ASPHALT REPAIR										
PAVE	U.C. per Sf				2	1.5	1.5	0	0	5
Repair Asphalt roads		1,000.00	0		$2,000	$1,500	$1,500	$0	$0	$5,000
PAVE	U C per Lf		0.055	CN-EQMD	1.911	I .25	0	0	0	3.161
Cut asphalt lor removal		500.00	28	$34.75	$956	$625	$0	$0	$0	$1,581
Subtotal					$2,956	$2, 125	$1,500	$0	$0	$6,581
Sales Tax					$0	$0	$75	$0	$0	$75
INEEL ORG Labor/Subcontractor Overheads					$1,239	$891	$660	$0	$0	$2,791
Subtotal Estimate										$9,447
Escalation					$146	$105	$78	$0	$0	$329
Contingency					$521	$375	$278	$0	$0	$1,173
— Total 9102.6 ASPHALT REPAIR			28		$4,862	$3,496	$2,591	$0	$0	$10,948
—										
F I N E R	U.C. per sf				0	0	0	1.59	0	1.59
HDPE Membrane Liner (60 mil) w/Geotextile Liner		155,930.00	0		$0	$0	$0	$247.929	$0	$247.929
LINER	U.C. per sf				0	0	0	1.59	0	1.59
HOPE Membrane Liner Overlap		11,400.00	0		$0	$0	$0	$18.126	$0	$18,126
LINER	U.C. per sf				0	0	0	1.38	0	1.38
HDPE Membrane sections 2'x2' ballast pads (20 mil)		12,300.00	0		$0	$0	$0	$16,974	$0	$16,974
LINER	U.C. per Ea				0	0	0	2	0	2
Concrete Bag Ballasts lor Pond Liner		3,034.00	0		$0	$0	$0	$6,068	$0	$6,068
LINER	U.C. par Ea				0	0	0	500	0	500
HOPE Membrane Boot 2 Locations		2.0	0		$0	$0	$0	$1,000	$0	$1,000

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor	QTY		Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
— 9102.3 POND LINERS									
LINER	U.C. per ea			0	0	0	1500	0	1500
HDPE Rung Ladder System	20.00	0		$0	$0	$0	$30,000	$0	$30,000
Subtotal				$0	$0	$0	$320.097	$0	$320.097
Sales Tax				$0	$0	$0	$0	$0	$0
INEELORG Labor/Subcontractor Overheads				$0	$0	$0	$39,052	$0	$39,052
Subtotal Estimate									$359,148
Escalation				$0	$0	$0	$12,498	$0	$12.498
Contingency				$0	$0	$0	$44,598	$0	$44,598
— Total 9102.3 POND LINERS		0		$0	$0	$0	$416,244	$0	$416,244
— CHAIN LINK FENCING									
Memo: Outside Tank Farm									
FENCE	U.C. per Ea		0.19	CN-LABR	6	3.08	0	0	9.06
Auger Fence Post Holes	189.00	36		$31.58	$1,134	$582	$0	$0	$1.716
FENCE	U.C. per Ea		0.492	CN-LABR	15.537	6.85	89	0	113.387
Corner Posts 8' High	4.00	2		$31.58	$62	$35	$356	$5	$0 $454
FENCE	U.C. per Ea		0.525	CN-LABR	16.58	8.85	100	0	0 125.43
End Gate Posts 8' High	2.00	1		$31.58	$33	$18	S2W	$0	$0 $251
FENCE	U.C. per Ea		0.464	CN-LABR	14.653	7.8	20.5	0	0 42.953
Line Posts 8' High	183.00	85		$31.58	$2.682	$1,427	$3.752	$0	$0 $7.860
FENCE	U.C. per LF		0.026	CN-LABR	0.821	0.2	1.86	0	0 2.681
Top Rail	1,880.00	49		$31.58	$1,544	$376	$3,497	$0	$0 $5.416
FENCE	U.C. per CF		0.105	CN-LABR	3.316	0.79	7	0	0 11.106
Mesh Fabric 8' High	1,880.00	197		$31.58	$6,234	$1,485	$13,160	$0	$0 $20,879
FENCE	U.C. per LF		0.01	CN-LABR	0.316	0.08	0.1	0	0 0.496
Reinforcing Tension Wire	1,880.00	19		$31.58	$594	$150	$188	$0	$0 $932
FENCE	U.C. per Ea		0.26	CN-LABR	6.211	0	18	0	0 26.211
Fence Braces	10.00	3		$31.58	$82	$0	$180	$0	$0 $262
FENCE	U.C. per Ea		20	CN-LABR	631.6	250	750	0	0 1631.6
Double-Swing Gate 24'	2.00	40		$31.58	$1,263	$500	$1,500	$0	$0 $3,263

Project Name:
TANK FARM *INTERIM ACTION PHASE 1 & 2*
Project Location: *INTEC*
Estimate **Number**: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL	Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
FENCE	U.C. per Lot		30	CN-LABR	947.4	0	500	0	0	1447.4
Grounding Wire		1.00	30	$31.56	$947	$0	$500	$0	$0	$1,447
Subtotal					$14,575	$4.574	$23.332	$0	$0	$42,481
Sales Tax					$0	$0	$1,167	$0	$0	$1.167
INEEL ORG Labor/Subcontractor Overheads					$6.112	$1,918	$10.273	$0	$0	$16,303
Subtotal **Estimate**										$81,951
Escalation					$720	$226	$1.210	$0	$0	$2,156
Contingency					$2,141	$672	$3,598	$0	$0	$6,411
— Total 9102.1 CHAIN LINK FENCING			462		$23,547	$7,390	$39,580	$0	$0	$70,517
— **9102.2 REVEGETATION**										
GEN	U.C. per sf				0	0	0	0.3	0	0.3
Revegetate Area Around Outside Perimeter of Pond		4,200.00	0		$0	$0	$0	$1,260	$0	$1,260
GEN	U.C. per sf				0	0	0	0.3	0	0.3
Revegetate Drainage Ditch		4,400.00	0		$0	$0	$0	$1.320	$0	$1,320
Subtotal					$0	$0	$0	$2,580	$0	$2.580
Sales Tax					$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads					$0	$0	$0	$749	$0	$749
Subtotal **Estimate**										$3,329
Escalation					$0	$0	$0	$116	$0	$116
Contingency					$0	$0	$0	$344	$0	$344
— Total 9102.2 REVEGETATION			0		$0	$0	M	$3,789	$0	$3,789
— **ASPHALT PAVING OF TANK FARM PERIMETER AREAS**										
PAVE	U.C. per sf				2	1.5	1.5	0	0	5
Asphalt Paving of Tank Farm Perimeter		95,280.00	0		$190,560	$142,920	$142,920	$0	$0	$476.400
Subtotal					$190,560	$142.920	$142.920	$0	$0	$476.400
Sales Tex					$0	$0	$7.146	$0	$0	$7,146
INEEL ORG Labor/Subcontractor Overheads					$79,908	$59,931	$62,927	$0	$0	$202,765
Subtotal **Estimate**										$686,311
Escalation					$9,412	$7.059	$7.412	$0	$0	$23.884
Contingency					$33,586	$25,189	$26,449	$0	$0	585,223
— Total ASPHALT PAVING OF TANK FARM PERIMETER AREAS			0		$313,465	$235,089	$246,854	M	$0	$795,418
— 01 CONC. FOR DITCH STRUCTURES										
GEN	U.C. percy		3	CN-CUB	94.74	0	100	0	0	194 74
Form, place. 8 finish dilch conc		520.00	1,560	$31.58	$49,265	$0	$52,000	$0	$0	$101,265

Project Name:
TANK FARM *INTERIM ACTION PHASE 1 & 2*
Project Location: *INTEC*
Estimate **Number**: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL	Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
FENCE	U.C. per Lot		30	CN-LABR	947.4	0	500	0	0	1447.4
Grounding Wire		1.00	30	$31.56	$947	$0	$500	$0	$0	$1,447
Subtotal					$14,575	$4.574	$23.332	$0	$0	$42,481
Sales Tax					$0	$0	$1,167	$0	$0	$1.167
INEEL ORG Labor/Subcontractor Overheads					$6.112	$1,918	$10.273	$0	$0	$16,303
Subtotal **Estimate**										$81,951
Escalation					$720	$226	$1.210	$0	$0	$2,156
Contingency					$2,141	$672	$3,598	$0	$0	$6,411
Total 9102.1 CHAIN LINK FENCING			**462**		**$23,547**	**$7,390**	**$39,580**	**$0**	$0	$70,517
9102.2 REVEGETATION										
GEN	U.C. per sf				0	0	0	0.3	0	0.3
Revegetate Area Around Outside Perimeter of Pond		4,200.00	0		$0	$0	$0	$1,260	$0	$1,260
GEN	U.C. per sf				0	0	0	0.3	0	0.3
Revegetate Drainage Ditch		4,400.00	0		$0	$0	$0	$1.320	$0	$1,320
Subtotal					$0	$0	$0	$2,580	$0	$2.580
Sales Tax					$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads					$0	$0	$0	$749	$0	$749
Subtotal **Estimate**										$3,329
Escalation					$0	$0	$0	$116	$0	$116
Contingency					$0	$0	$0	$344	$0	$344
Total 9102.2 REVEGETATION			0		**$0**	$0	M	$3,789	$0	$3,789
ASPHALT PAVING OF TANK FARM PERIMETER AREAS										
PAVE	U.C. per sf				2	1.5	1.5	0	0	5
Asphalt Paving of Tank Farm Perimeter		95,280.00	0		$190,560	$142,920	$142,920	$0	$0	$476.400
Subtotal					$190,560	$142.920	$142.920	$0	$0	$476.400
Sales Tex					$0	$0	$7.146	$0	$0	$7,146
INEEL ORG Labor/Subcontractor Overheads					$79,908	$59,931	$62,927	$0	$0	$202,765
Subtotal **Estimate**										$586,311
Escalation					$9,412	$7.059	$7.412	$0	$0	$23.884
Contingency					$33,586	$25,189	$26,449	$0	$0	585,223
Total ASPHALT PAVING OF TANK FARM PERIMETER AREAS			0		$313,465	$235,089	$246,854	M	$0	$795,418
01 CONC. FOR DITCH **STRUCTURES**										
GEN	U.C. percy		3	CN-CUB	94.74	0	100	0	0	194 74
Form, place. 8 finish dilch conc		520.00	1,560	$31.58	$49,265	$0	$52,000	$0	$0	$101,265

J-1-17

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL / Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
— 9103.1 CONC. FOR DITCH STRUCTURES									
GEN	U.C. per sf	0.03	CN-CLAB	0.947	0	0	0	0	0.947
Fine grade ditches	15,260.00	458	$31.58	$14.457	$0	$0	$0	$0	$14,457
GEN	U.C. per sf	0.25	CN-CARP	8.953	0	15	0	0	10.453
Form headwalls	2,990 00	748	$35.81	$26.768	$0	$4.485	$0	$0	$31,253
GEN	U.C. percy	4	CN-CLAB	126.32	0	120	0	0	248.32
Place, finish, & cure headwall conc	45.00	180	$31.58	$5,684	$0	$5,400	$0	$0	$11,084
Subtotal				$96,174	$0	$61.885	$0	$0	$158,059
Sales Tax				$0	$0	$3.094	$0	$0	$3,094
INEEL ORG Labor/Subcontractor Overheads				$27.919	$0	$18,863	$0	$0	$46.783
Subtotal Estimate									**$207,937**
Escalation				$4,316	$0	$2,918	$0	$0	$7.236
Contingency				$15,409	$0	$10,411	$0	$0	$25.821
— Total 9103.01 CONC. FOR DITCH STRUCTURES		2,945		$143,822	$0	$97,172	$0	$0	$240,994
— 9103.02 PRECAST CONC FOR DITCHES									
GEN	U.C. per Ea	40	CN-LABR	1263.2	0	4500	0	0	5763.2
Base for lift station	1.00	40	$31.58	$1,263	$0	54,500	$0	$0	$5.763
GEN	U.C. per Ea	10	CN-LABR	915.8	0	1500	0	0	1815.8
Cover for lift station	1.00	10	$31.58	$316	$0	$1,500	$0	$0	$1,816
GEN	U.C. per Lf	4	CN-LABR	126.32	0	350	0	0	476.32
Barrel section for lift station	15.00	60	$31.58	$1.895	$0	$5.250	$0	$0	$7.145
GEN	U.C. par Hr	1	CN-EQHV	35.49	150	0	0	0	185.49
Crane usage for lift station	20.00	20	$35.49	$710	$3,000	$0	$0	$0	$3,710
GEN	U.C. per Ea	35	CN-LABR	1105.3	0	450	0	0	1555.3
Precast manhole det 1/c-28	1.00	35	$31.58	$1,105	$0	$450	$0	$0	$1.555
GEN	U.C. per Ea	70	CN-LABR	2210.6	0	660	0	0	2870.6
Precast manhole det 1/c37	2.00	140	$31.58	$4,421	$0	$1.320	$0	$0	$5.741
GEN	U.C. per Hr	1	CN-EQHV	35.49	150	0	0	0	185.49
Crane usage for manholes	30.00	30	$35.49	$1,065	$4,500	$0	$0	$0	$5,565
Subtotal				$10,775	$7,500	$13.020	$0	$0	$31.295
Sales Tax				$0	$0	$651	$0	$0	$651
INEEL ORG Labor/Subcontractor Overheads				$3,128	$2,177	$3,969	$0	$0	$9,274
Subtotal Estimate									**$41,220**
Escalation				5484	$337	$614	$0	$0	$1,434
Contingency				$1,726	$1,202	$2,190	$0	$0	$5,118
— Total 9103.02 PRECAST CONC FOR DITCHES		335		$16,113	$11,216	$20,444	$0	$0	$47,773

Project Name:
TANK FARU INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
— 9103.3 CONCRETE PAD AT SPILLWAY									
GEN	U.C. per cy	3	CN-CUB	94.74	0	100	0	0	194.74
Form, Place, and Finish Concrete Pad	3.65	11	$31.58	$346	$0	$365	$0	$0	$711
Subtotal				$346	$0	$365	$0	$0	$711
Sales Tax				$0	$0	$18	$0	$0	$18
INEEL ORG Labor/Subcontractor Overheads				$100	$0	$111	$0	$0	$212
Subtotal Estimate									$941
Escalation				$16	$0	$17	$0	$0	$33
Contingency				$55	$0	$61	$0	$0	$117
--- Total 0103.3 CONCRETE PAD AT SPILLWAY		**11**		**$517**	**$0**	$573	$0	**$0**	**$1,090**
— 9105.01 MISC METALS									
GEN	U.C. per Ea	10	CN-IRON	435	0	1200	0	0	1635
Bilco access cover at lift station	1.00	10	$43.50	$435	$0	$1,200	$0	$0	$1,635
GEN	U.C. per Ea	0.25	CN-LABR	7.895	0	15	0	0	22.095
Delineator Post w/Reflector	2.00	1	$31.58	$16	$0	$30	$0	$0	$46
GEN	U.C. per Ea	0		0	0	0	50	0	50
Metal Band for HDPE Membrane Boot on 48" CMP	1.00	0		$0	$0	$0	$50	$0	$50
GEN	U.C. per Ea	0		0	0	0	35	0	35
Metal Band tor HDPE Membrane Boot on Telephone Pole	1.00	0		$0	$0	$0	$35	$0	$35
Subtotal				$451	$0	$1,230	$05	$0	$1,766
Sales Tax				$0	$0	562	$0	$0	$62
INEEL ORG Labor/Subcontractor Overheads				$131	$0	$375	$25	$0	$530
Subtotal Estimate									$2,358
Escalation				$20	$0	$58	$4	$0	$82
Contingency				$72	$0	$207	$14	$0	$293
--- Total 9105.01 MISC METALS		**11**		**$674**	**$0**	$1,931	$127	$0	**$2,733**
— 9109.1 POLY UREA SPRAY-ON COATING									
SPEC	U.C. per SF			0	0	0	6	0	6
Poly Urea Spray-On Including Geotextile Material and Installation	221,365.00	0		$0	$0	$0	$1,326,190	$0	$1,328,190

Project Name:
TANK *FARM INTERIM ACTION PHASE 1 &* 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor		QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
9109.1 POLY UREA SPRAY-ON COATING										
Subtotal					$0	$0	$0	$1,328,190	$0	$1,328,190
Sales Tau					$0	$0	$0	$0	$0	$0
INEEL OAG Labor/Subcontractor Overheads					$0	$0	$0	$67.206	$0	$67,206
Subtotal Estimate										51,395,396
Escalation					$0	$0	$0	$48,560	$0	$48,560
Contingency					$0	$0	$0	$216.593	$0	$216.593
Total 9109.1 POLY UREA SPRAY-ON COATING			0		$0	$0	$0	$1,660,650	$0	$1,660,550
9115.1 INSTALL PUMPS IN LIFTSTATION										
	PIPE	U.C. per Ea	30	CN-PIPE	11799	0	5400	0	0	6579.9
Purchase& install pumps		2.00	60	$39.33	52.360	$0	$10,800	$0	$0	$13,160
	PIPE	U.C. per Ea	0 6	CN-PIPE	23.598	0	200	0	0	223 598
8' 90 Ell		4.00	2	$39.33	$94	$0	$800	$0	$0	$894
	PIPE	U.C. per Ea	0.6	CN-PIPE	23.598	0	160	0	0	183.598
8' Red		2.00	I	539.33	$47	$0	$320	$0	$0	$367
	PIPE	U C. per Ea	2	CN-PIPE	78.66	0	1000	0	0	1078.66
8' Chk Valve		2.00	4	$39.33	$157	$0	$2,000	$0	$0	$2,157
	PIPE	U.C. per Ea	0.5	CN-PIPE	19.665	0	180	0	0	199.665
8' Adaptor		2.00	1	$39.33	$39	$0	$360	$0	$0	$399
	PIPE	U.C. per Lf	0.2	CN-PIPE	7.866	0	11	0	0	18.866
8' Pipe		10.00	2	$39.33	$79	$0	$110	$0	$0	$189
	PIPE	U.C. per Hr	1	CN-EQMD	34.75	40	0	0	0	74.75
Crane usage		10.00	10	$34.75	$348	$400	$0	$0	$0	$748
Subtotal					$3,124	$400	$14,390	$0	$0	$17914
Sales Tax					$0	$0	$720	$0	$0	$720
INEEL ORG Labor/Subcontractor Overheads					$1.310	$168	$6,336	$0	$0	$7.814
Subtotal **Estimate**										$26,447
Escalation					$154	$20	$746	$0	$0	$920
Contingency					$551	$70	$2,663	$0	$0	$3,284
Total 8115.1 INSTALL PUMPS IN LIFTSTATION			81		$5,139	$658	$24,855	$0	$0	$30,652
9116.1 SWITCHGEAR and DEVICES										
	ELEC	U.C. per Ea	1	CN-ELEC	35.89	0	0	0	0	35.89
Demo existing MCP in MCC-OGF-1049		1.00	1	$35.89	$36	$0	$0	$0	$0	$36
	ELEC	U.C. per Ea	1.5	CN-ELEC	53.835	0	275	0	0	328 835
New 30 amp breaker		1.00	2	$35.89	$54	$0	$275	$0	$0	$329
	ELEC	U.C. per Ea	0.5	CN-KEC	17.945	0	25	0	0	42 945
Nameplate		1.00	1	$35.89	$18	$0	$25	$0	$0	$43

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor	QTY		Hrs	Crew/Rate	Labor	Const Eaq	Matl	SIC	Other	TOTAL
--- 9116.1 SWITCHGEAR and DEVICES										
ELEC	U.C. per Ea		3	CN-ELEC	107.67	0	540	0	0	647 67
Manual transfer switch, Sq.D 82343RB		1.00	3	$35.89	$108	$0	$540	$0	$0	$648
ELEC	U.C. per Ea		4	CN-ELEC	143.56	0	0	0	0	143 56
Control Panel, CP-OGF-1572, furnishes with pumps		1.00	4	$35.89	$144	$0	$0	$0	$0	$144
ELEC	U.C. per LF		0.1	CN-ELEC	3.569	0	3.25	0	0	6 839
P-1000 U-Strut		50.00	5	$35.89	$179	$0	$163	$0	$0	$342
ELEC	U.C. per EA		0.3	CN-ELEC	10.767	0	4.5	0	0	15267
P-2453 Post Base		4.00	1	$35.89	$43	$0	$18	$0	$0	$61
ELEC	U.C. per Ea		0.1	CN-ELEC	3.569	0	18	0	0	5 389
P-1325 Angle Filtings		12.00	1	$35.89	$43	$0	$22	$0	$0	$65
ELEC	U.C. per LS		10	CN-ELEC	358.9	0	30	0	0	388 9
Misc. bolts and nuts		1.00	10	$35.89	$359	$0	$30	$0	$0	$389
ELEC	U.C. per Ea		0.5	CN-ELEC	17.945	0	3.5	0	0	21 445
3/8" Concrete anchors		8.00	4	$35.89	$144	$0	$28	$0	$0	$172
ELEC	U.C. per 5			CN-ELEC	0	0	0	750	0	750
4'x6" x 3'6" x 6" Concrete pad		1.00	0		$0	$0	$0	$750	$0	$750
ELEC	U.C. per Ea		1.5	CN-ELEC	53.835	0	313	0	0	366.835
Crouse Hinds AREA 10425 recp't		2.00	3	$35.89	$108	$0	$626	$0	$0	$734
ELEC	U.C. per Ea		1	CN-ELEC	35.89	0	10	0	0	45 89
Ultrasonic Level Controller, furnished with pumps, connect only		2.00	2	$35.89	$72	$0	$20	$0	$0	$92
Subtotal					$1,306	$0	$1,746	$750	$0	$3,802
Sales Tax					$0	$0	$87	$0	$0	$87
INEEL ORG Labor/Subcontractor Overheads					$548	$0	$769	$314	$0	$1,631
Subtotal Estimate										$5.521
Escalation					$65	$0	$91	$37	$0	$1.92
Contingency					$230	$0	$323	$132	$0	$686
--- Total 9116.1 SWITCHGEAR and DEVICES			36		$2,149	$0	53,016	$1,234	$0	$6,399
--- 9116.2 RACEWAYS AND ENCLOSURES										
ELEC	U.C. per LF		0.12	CN-ELEC	4.307	0	2.79	0	0	7.097
1" GRC with fittings and supports		450.00	54	$35.89	$1,938	$0	$1,256	$0	$0	$3,194
ELEC	U.C. per Ea		0.2	CN-ELEC	7.178	0	2.5	0	0	9.678
1" x 6' nipple with LN and Bushings		2.00	0	$35.89	$14	$0	$5	$0	$0	$19
ELEC	U.C. per Ea		0.3	CN-ELEC	10.767	0	6.5	0	0	17.267
PB-167 and 189		2.00	1	$35.89	$22	$0	$13	$0	$0	$35

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL / Org/Subcontractor		QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
--- 9116.2 RACEWAYS AND ENCLOSURES										
ELEC	U.C. per Ea		0.4	CN-ELEC	14.356	0	30	0	0	44.356
Appleton EJB-464 J-box		2.00	1	535.89	$29	$0	$60	$0	$0	$89
ELEC	U.C. per Ea		0.5	CN-ELEC	17.945	0	9.5	0	0	27.445
LR 3/4" with gasket and cover		2.00	1	$35.89	$36	$0	519	$0	$0	$55
ELEC	U.C. per Ea		0.5	CN-ELEC	17.945	0	25	0	0	42.945
3/4" sealtite Ilex. 3' with connectors		2.00	1	$35.89	$36	$0	$50	$0	$0	$86
ELEC	U.C. per LF		0.06	CN-ELEC	2.153	0	0.35	0	0	2.503
1' PVC conduit		350.00	21	$35.89	$754	$0	$123	$0	$0	$876
ELEC	U.C. per EA		0.1	CN-ELEC	3.589	0	1.75	0	0	5.339
1' PVC FA		4.00	0	$35.89	$14	$0	57	$0	$0	$21
ELEC	U.C. per EA		0.1	CN-ELEC	3.589	0	25	0	0	6.089
1' 90 deg. GRC ell		4.00	0	535.89	$14	$0	$10	$0	$0	$24
ELEC	U.C. per EA		0.01	CN-ELEC	0.359	0	1	0	0	1.359
1" Base spacer		60.00	1	$35.89	$22	$0	$60	$0	$0	582
Subtotal					$2.878	$0	$1,602	$0	$0	$4,480
Sales Tax					$0	$0	$80	$0	$0	$80
INEEL ORG Labor/Subcontractor Overheads					$1,207	$0	$705	$0	$0	$1.912
Subtotal Estimate										$6,473
Escalation					$142	bo	583	$0	$0	$225
Contingency					$507	$0	$296	$0	$0	$804
--- Total 9116.2 RACEWAYS AND ENCLOSURES			80		$4,735	$0	$2,767	$0	$0	$7,502
--- 9116.3 CONDUCTORS AND GROUNDING										
ELEC	U.C. per LF		0.006	CN-ELEC	0.287	0	0.08	0	0	0.367
#14 thhn copper wire		1,000.00	8	$35.89	$287	$0	$80	$0	$0	$367
ELEC	U.C. per LF		0.01	CN-ELEC	0.359	0	0.2	0	0	0.559
RG-6U2 Cable		450.00	5	$35.89	$162	$0	$90	$0	$0	$252
ELEC	U.C. per LF		0.01	CN-ELEC	0.359	0	1.1	0	0	1.459
#8 thhn capper wire		1,500.00	15	$35.89	$538	$0	$1,650	$0	$0	$2,188
ELEC	U.C. per LF		0.02	CN-ELEC	0,718	0	1	0	0	1.718
#2 bare copper		30.00	1	$35.89	$22	$0	$30	$0	$0	$52
ELEC	U.C. per Ea		10	CN-ELEC	358.9	0	25	0	0	383.9
5/8" x 10 ground rod		2.00	20	$35.89	$718	$0	$50	50	$0	$768
ELEC	U.C. per Ea		1	CN-ELEC	35.69	0	20	0	0	55.89
Cadwelds		2.00	2	$35.89	$72	$0	$40	$0	bo	$112

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE II*

LEVEL Org/Subcontractor		OTY		Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
--- 9116.3 CONDUCTORS AND GROUNDING											
	ELEC	U.C. per Ea		20	CN-ELEC	717.8	0	35	0	0	752 8
Connect 7.5 HP Pumps			2.00	40	$35 89	$1,436	$0	$70	$0	$0	$1,506
Subtotal						$3.234	$0	$2,010	$0	$0	$5.244
Sales Tax						$0	$0	$101	$0	$0	$101
INEEL ORG Labor/Subcontractor Overheads						$1,356	$0	$885	$0	$0	$2,241
Subtotal Estimate											$7,585
Escalation						$160	$0	$104	$0	$0	$264
Contingency						$570	$0	$372	$0	$0	$942
--- Total 9116.3 CONDUCTORS AND GROUNDING				90		$5,319	$0	53.472	$0	$0	$8,791
--- 9116.4 DUCTBANK											
	ELEC	U.C. per CY				0	0	0	15	0	15
Excavation			40.00	0		$0	$0	$0	$600	$0	$600
	ELEC	U.C. per CY				0	0	0	20	0	20
Backfill			30.00	0		$0	$0	$0	$600	$0	$600
	ELEC	U.C. per CY				0	0	0	6	0	6
Haul			10.00	0		$0	$0	$0	$60	$0	$60
	ELEC	U.C per SF				0	0	0	4.5	0	4.5
Formwork			350.00	0		$0	$0	$0	$1.575	$0	$1,575
	ELEC	U.C. per LBS				0	0	0	0.75	0	0.75
#4 rebar			500.00	0		$0	$0	$0	$375	$0	$375
	ELEC	u.c per CY				0	0	0	125	0	125
Red concrete			10.00	0		$0	$0	$0	$1.250	$0	$1.250
	ELEC	U.C per CY				0	0	0	20	0	20
Backfill			30.00	0		$0	$0	$0	$600	$0	$600
	ELEC	U.C per LF		0.002	CN-ELEC	0.072	0	0.15	0	0	0.222
Locator Ribbon			200.00	0	$35.89	$14	$0	$30	$0	$0	$44
Subtotal						$14	$0	$30	$5,060	$0	$5,104
Sales Tax						$0	$0	$2	$0	$0	$2
INEEL ORG Labor/Subcontractor Overheads						$6	$0	$13	$2.122	$0	$2.141
Subtotal Estimate											$7,247
Escalation						$1	$0	$2	$250	$0	$252
Contingency						$3	$0	$6	$892	$0	$900
--- Total S116.4 DUCTBANK				0		$24	$0	$52	$8.324	$0	$8,399
--- 9116.5 TESTING											
	ELEC	U C per LOT		12	CN-ELEC	430.68	0	0	0	0	430.68
CC testing of systems			1.00	12	$35.89	$431	$0	$0	$0	$0	$431

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: ***INTEC***
Estimate Number: ***2956-D***

CONSTRUCTION DETAIL ITEM REPORT

Client: ***M. S. KAPTEIN***
Prepared By: ***T. R. MITCHELL***
Estimate Type: ***TITLE II***

LEVEL Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const Eqp	Matl	S/C	Other	TOTAL
--- **9116.5 TESTING**									
Subtotal				$431	$0	$0	$0	$0	$431
Sales Tax				$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Overheads				$181	$0	$0	$0	$0	$181
Subtotal **Estimate**									$611
Escalation				$21	$0	$0	$0	$0	$21
Contingency				$76	$0	$0	$0	$0	$76
---Total 9116.5 TESTING		12		$708	$0	$0	$0	$0	$708
--- 9116. AIRE									
Memo: ***Use one break per 100 lf of excavation and two splices per break.***									
ELEC	U.C. per Ea	4	CN-ELEC	143.56	0	60	0	0	203.56
Repair cathodic protection wires	50.00	200	$35.89	$7,178	$0	53m	$0	$0	$10,176
Subtotal				$7,178	$0	$3,000	$0	$0	$10,178
Sales Tax				$0	$0	$150	$0	$0	$150
INEEL ORG Labor/Subcontractor Overheads				$3,010	$0	$1,321	$0	$0	$4,331
Subtotal Estlmate									$14,659
Escalation				$355	$0	$156	$0	$0	$510
Contingency				$1,265	$0	$555	$0	$0	$1,820
---Total 8116.6 REPAIR CATHODIC PROTECTION		200		$11,808	$0	$5,182	$0	$0	$16,989
--- **GAPIF Non-Org G&A and PIF**									
Memo: This is a model that works with the macro named "INEELRollup_Rev0.BAS".									
PF NOGAPIF	U.C. per $			0	0	0	0	1	1
Procurement Fee %	69,993.00	0		$0	$0	$0	$0	$69,993	$69,993
GBA NOGAPIF	U.C. per $			0	0	0	0	1	1
G&A Fee %	26.597.00	0		$0	$0	$0	$0	$26,597	$26.597
Subtotal				$0	$0	$0	$0	$96.590	$96,590
Sales Tax				$0	$0	$0	$0	$0	$0
INEEL ORG Labor/Subcontractor Oveheads				$0	$0	$0	$0	$0	$0
Subtotal **Estimate**									$96,590
Escalation				$0	$0	$0	$0	$0	$0
Contingency				$0	$0	$0	$0	$0	$0
---Total **GAPIF Non-Org G&A and PIF**		0		$0	$0	$0	$0	$96,590	$96,590

Project Name:
TANK FARM INTERIM ACTION PHASE 1 & 2
Project Location: *INTEC*
Estimate Number: *2956-D*

CONSTRUCTION DETAIL ITEM REPORT

Client: *M. S. KAPTEIN*
Prepared By: *T. R. MITCHELL*
Estimate Type: *TITLE It*

LEVEL	Org/Subcontractor	QTY	Hrs	Crew/Rate	Labor	Const	Matl	S/C	Other	TOTAL
Subtotal	TANK FARM INTERIM ACTION PHASE 1 & 2				$879.753	$323.849	$326,638	$1,679,797	$116,590	$3,326,627
Sales Tax					$0	$0	$16,332	$0	$0	$16,332
INEEL ORG	Labor/Subcontractor Overheads				$286,944	$113,644	$125,406	$116,155	$0	$642,149
Subtotal Estimate										$3,985,108
Escalation					$40,601	$15.225	$16,299	$62,499	$696	$135,320
Contingency					$176,154	$71,732	$57,505	$266,615	$2,484	$574,489
Total TANK FARM INTERIM ACTION PHASE 1 6 2			14,377		$1,383,452	$524,450	$542,180	$2,125,066	$119,770	54,694,917

J-1-25

Appendix J–2

Revised Phase I Detailed Cost Estimate

Idaho National Engineering and Environmental laboratory

INTEROFFICE MEMORANDUM

Date: April **16,2003**

To: N. K. Rogers MS *3650* **6-7775**

From: J. C. Grenz MS **3655** **6-7175**

Subject: **TANK** FARM INTERIM ACTION PHASE 1

Estimating Services has prepared a Title II Estimate for **the** above project. The costs reflect what a subcontractor would be expected to bid on this project. The 10% contingency will be removed after the final bid documents are reviewed. At that time the estimate will be re-labeled as AFC.

Total Construction Subcontract Cost. $982,005

If you have **any** questions or comments, please call me at **526-7175** or e-mail me at grenjc.

cc: J. J. Aucoin, **MS 3930**
Estimate File 2960-A
J. C. Grenz Letter File **(JCG-12-03)**

Uniform File Code: 8000
Disposition Authority: A16-1.5-b
Retention Schedule: Cut off at the end of each fiscal year. Destroy **15** years after cutoff.

NOTE Original disposition authority, retention schedule, and Uniform Filing Code applied by the sender may not be appropriate for all recipients. Make adjustments as needed.

Bechtel BWXT Idaho, LLC

COST ESTIMATE SUPPORT DATA RECAPITULATION

Project Title: TANK FARM INTERIM ACTION PHASE I
Estimator: J. C. Grenz
Date: April 16,2003
Estimate Type: Title II
File: 2960-A
Approved By:

I. **PURPOSE:** ***Brief description of the intent of how the estimate is to be used, i.e., for engineering study, comparative analysis, DWP, LCB out-year planning, BCP, etc.***

This estimate is to be used for AFC bid comparison after it is updated by the find bid documents.

II. **SCOPE OF WORK** ***Brief description of the proposed project.***

A. The scope of this project is to encourage run-off away from the tank farm and into a large evaporation pond on the east side of MTEC. The following work is included.
B. Complete the drainage ditches that were started several years ago.
C. Line the evaporation pond.
D. Pave the area around the big stack foundation on Olive Street.
E. Rebuild a duct bank north of the tank farm so a new ditch will drain.

The following work is excluded
A. All work inside the tank farm. fence.
B. Paving the berm around the fuel tanks north of the tank farm.

III. **BASIS OF THE ESTIMATE:** ***Drawings, Design Report, Engineers Notes and/or other documentation upon which the estimate is originated***

A. Conversations with designers
B. AFC drawings
C. AFC specifications
D. Cat Handbook
E. Terex Handbook
F. Means Estimating Manual
G. Richardson Construction Estimating Standards
H. Estimators experience at the INEEL

IV. **ASSUMPTIONS:** ***Conditions statements accepted or supposed true without proof of demonstration. An assumption has a direct impact on total estimated cost.***

A. Construction to start early this summer.
B. Construction to be completed by early fall of 2003.
C. Work to be competitively bid by contractors familiar with the **INEEL.**
D. Work to be performed during normal working hours.
E. Work to be completed on a single shift basis.
F. Overtime will be kept to a minimum.
G. Hazardous material will not be encountered.
H. All excavated material will be returned as backfill.
I. Rad technicians, environmental, safety, and quality support will be available to support the work.
J. No costs have been included to decon, clean, or replace any equipment.
K. See detailed estimate for all items included in this estimate.

V. **CONTINGENCY GUIDELINE IMPLEMENTATION** ***The percentage used for contingency as determined by the contingency allowance guidelines can be altered to reflect the type of construction and conditions that may impact the total estimated cost.***

A 10% contingency has been included by the estimator. It will be removed when the final AFC documents are reviewed.

VI. **OTHER COMMENTS/CONCERNS SPECIFIC TO THE ESTIMATE:**

Line item costs on the detailed cost sheets are direct costs without overhead, profit, escalation, or contingency. Those costs are added in at a subtotal level.

Project Summary Report

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hurst*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Level	Group	Description	Estimate Subtotal	Escalation	Continaency	Continaency %	TOTAL
1000		CONSTRUCTION MANAGEMENT	$180,187	$0	$36,037	20.00%	$216,224
1100		--CONSTRUCTION SUPERVISION & ENGINEERING	$180,187	$0	$36,037	20.00%	$216,224
5000		PROJECT MANAGEMENT	$57,912	$0	$8,687	15.00%	$66,599
5100		– P IADMINISTRATION	$57,912	$0	$8,687	15.00%	$66,599
9000		CONSTRUCTION	$205,305	$0	$41,061	20.00%	$246,366
9100		--CONSTRUCTION SUBCONTRACTS	$179,332	$0	$35,866	20.00%	$215,198
9101		---GENERAL CONDITIONS	$56,598	$0	511,320	20.00%	$67,917
9102		---SITEWORK	$122,734	$0	$24,547	20.00%	$147,281
9102.01		------Grade Surface for Pavement	$39,968	$0	$7,993	20.00%	$47,960
9102.02		——Pave Over Tanks	$17.247	$0	$3,449	20.00%	$20.696
9102.03		------Pave on Slope	$5.457	SO	$1.091	20.00%	$6,548
9102.04		------Excavate for Pipe	$53,288	$0	$10,658	20.00%	563,946
9102.05		------Install Pipes	56,175	$0	$1,355	20.00%	$8,131
9300		– CONSTRUCTIONSUPPORT	$17,149	$0	$3,430	20.00%	$20,579
9310		---CONSTRUCTIONSUPPORT - RADTECH	517,149	$0	53,430	20.00%	$20,679
9400		--CONSTRUCTION QUALITY CONTROL	$8,824	$0	$1,765	20.00%	$10,589
Total		**Tank Farm Phase II**	**$443,404**	**$0**	**$85,785**	**19.35%**	**$529.189**

J-2-6

Project Summary Report

Project Name: *Tank Farm Interim Action Phase 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Level	Group	Description	Estimate Subtotal	Escalation	Continaency	Continaency %	TOTAL
Total TF Phase I			$892,732	$0	$89,273	10.00%	$982,005

DETAIL ITEM REPORT

Project Name: ***Tank Farm Interim Action Phase 1***

Project **Location:** ***INTEC***
Estimate Number: ***2960-A***

Client: ***N. K. Rogers***
Prepared By: ***J C. Grenz***
Estimate Type: ***Title II***

Code Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9101 GENERAL CONDITIONS											
WORKABILITY WALKDOWN - 1/2 HR/DAY X 6 WORKERS X 4 DAY/WK	GEN	U.C. per Wks	20.00	12 240	CN-LABR $31.58	378.96 $7,579	0 $0	0 $0	0 $0	0 $0	378 96 $7,579
POST JOB REVIEW	GEN	U.C. per LOT	1.00	10 10	CN-SUPR $40.00	400 $400	0 $0	0 $0	0 $0	0 $0	400 $400
Full-time Super	GEN	U.C. per wk	20.00	40 800	CKSUPR $40.00	1600 $32,000	0 $0	0 $0	0 $0	0 $0	1600 $32.000
Subtotal						$39,979	$0	$0	$0	$0	$39,979
Sales Tax						$0	$0	$0	$0	$0	$0
INEEL/Subcontractor Overheads		29.03%				$11,606	$0	$0	$0	$0	$11,606
Subtotal Estimate											$51,585
Escalation						$0	$0	$0	$0	$0	$0
Contingency						$5,159	$0	$0	$0	$0	$5,159
---Total 9101 GENERAL CONDITIONS				1,050		$56,744	$0	$0	$0	$0	$56,744
9102.01 Demo											
Demo Sidewalk	GEN	U.C. per sf	450.00	0.01 6	CN-EQMD $34.75	0.348 $156	0.8 $360	0 $0	0 $0	0 $0	1.148 $516
Demo Ductbank	GEN	U.C. per lf	85.00	1 85	CN-EQMD $34.75	34.75 $2.954	20 $1,700	0 $0	0 $0	0 $0	54.75 $4,654
Remove 4/0 15kV power	ELEC	U.C. per Lf	1,800.00	0.048 86	CN-ELEC $35.89	1.723 $3.101	0 $0	0 $0	0 $0	0 $0	1.723 $3,101
1/0 Ground	ELEC	U.C. per Lf	600.00	0.024 14	CN-ELEC $35.89	0.861 $517	0 $0	0 $0	0 $0	0 $0	0.861 $517
Confined space entry	ELEC	U.C. per Ea	6.00	4 24	CN-ELEC $35.89	143.56 $861	0 $0	0 $0	0 $0	0 $0	143.56 $661
Subtotal						$7,589	$2,060	$0	$0	$0	$9,649
Sales Tax						$0	$0	M	$0	$0	$0
INEEL/Subcontractor Overheads		35.02%				$2,781	$598	$0	$0	$0	$3.379
Subtotal Estimate											$13,028
Escalation						$0	$0	$0	to	$0	$0
Contingency						$1.037	$266	$0	$0	$0	$1,303
---Total 9702.01 Demo				214		$11,407	$2,924	$0	$0	$0	$14,331
9102.02 Grade for Ditches											
Ditch Ex (225cy)		U.C. per	1.00	0		0 $0	0 $0	0.01 $0	0 $0	0 $0	0.01 $0

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action* Phase *1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J C. Grenz*
Estimate Type: Title *II*

Code	Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.02	Grade for Ditches											
		DIRT	U.C. per hr		1	00E0930	0	28.68	0	0	0	28 68
	Case 590 Loader/Hoe			40.00	40		$0	$1,147	$0	$0	$0	$1,147
		DIRT	U.C. per hr		1	CN-EQMD	94.75	0	0	0	0	94.75
	Equipment Operators, Medium Equipment			40.00	40	$34.75	$1,390	$0	$0	$0	$0	$1,390
		DIRT	U.C. per hr		3	CN-LABE	97.32	0	0	0	0	97 32
	LABORER EXCAVATION, BACKFILL. FOUNDATIONS, TRENCHES			40.00	120	$32.44	$3.893	$0	$0	$0	$0	$3,893
		DIRT	U.C. per hr		1	00E2010	0	31.45	0	0	0	31 45
	12 cy End Dump			40.00	40		$0	$1,258	$0	$0	$0	$1,258
		DIRT	U.C. per hr		1	CN-TRHV	33.48	0	0	0	0	33 48
	Truck Drivers, Heavy			40.00	40	$33.48	11,339	$0	$0	$0	$0	$1.339
	Subtotal						$6,622	$2.405	$0	$0	$0	$9.027
	Sales Tax						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		41.93%				$2,777	$1,009	$0	$0	$0	$3,785
	Subtotal Estimate											$12,813
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$940	$341	$0	$0	$0	$1.281
--Total	8102.02 Grade for Oitchea				200		$10,339	$3,755	$0	$0	$0	$14,094
9102.03	Install GFE Manhole and CMP											
00E1012		DIRT	U.C. per hr		1	00E1012	0	91.41	0	0	0	91.41
	Cat 330 1.75 cy Hoe			40.00	40		$0	$3,656	$0	$0	$0	$3,656
		DIRT	U.C. per hr		1	CN-EQHV	35.49	0	0	0	0	35.49
	Equipment Operators. Medium Equipment			40.00	40	$35.49	$1,420	$0	$0	$0	$0	$1.420
		DIRT	U.C. per hr		3	CN-LABE	57.32	0	0	0	0	97 32
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS, TRENCHES			40.00	120	$32.44	$3,893	$0	$0	$0	$0	$3.893
	Subtotal						$5,312	$3,658	$0	$0	$0	$8,969
	Sales Tax						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		41.93%				$2,228	$1,533	$0	$0	$0	$3.761
	Subtotal Estimate											$12,730
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$754	$519	$0	$0	$0	$1,273
—Total	9102.03 Install GFE Manhole and CMP				160		58,294	$5,709	$0	$0	$0	$14,003
p102.04	New Pavement											
		GEN	U.C. per tn				0	0	0	100	0	100
	Misc Asphalt Placement at Stack			100.00	0		$0	$0	$0	$10,000	$0	$10,000

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phese 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Descriotion	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.04	New Pavement											
	Crushed Base	GEN	U.C. per cy	65.00	0		0 $0	0 $0	0 $0	40 $2,600	0 $0	40 $2.600
	Misc Asphalt Placement at Fuel Tanks	GEN	U.C. per ln	30.00	0		0 $0	0 $0	0 $0	85 $2,550	0 $0	85 $2,550
	Crushed Base	GEN	U.C. per cy	20.00	0		0 $0	0 $0	0 $0	40 $800	0 $0	40 $800
	Misc Asphalt Placement at #6	GEN	U.C. per ln	30.00	0		0 $0	0 $0	0 $0	85 $2,550	0 $0	85 $2,550
	Crushed Base	GEN	U.C. per cy	20.00	0		0 $0	0 $0	0 $0	40 $800	0 $0	40 $800
	Misc Asphalt Placement at 664	GEN	U.C. per tn	65.00	0		0 $0	0 $0	0 $0	85 $5,525	0 $0	85 $5,525
	Crushed Base	GEN	U.C. per cy	45.00	0		0 $0	0 $0	0 $0	40 $1,600	0 $0	40 51.800
	Subtotal						$0	$0	$0	$26,625	$0	$26,625
	Sales Taw						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		29.03%				$0	$0	$0	$7,729	$0	$7,729
	Subtotal Estimate											$34,354
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$3,435	$0	$3,435
	—Total 9102.04 New Pavement				0		$0	$0	$0	$37,790	$0	$37,790
9102.05	Grade Pond											
	Surveyors	DIRT	U.C. per hr	20.00	2 40	CN-SURV $33.17	66.34 $1,327	0 $0	0 $0	0 $0	0 $0	68.34 $1.327
	Cat 12 Grader	DIRT	U.C. per hr	30.00	1 30	00E0910	0 $0	43.38 $1,301	0 $0	0 $0	0 $0	43.38 $1,301
	Cat CS-433 Vib Smooth Drum Compactor	DIRT	U.C. per hr	30.00	1 30	00E0630	0 $0	26.47 $794	0 $0	0 $0	0 $0	26.47 $794
	Cat 950 4 cy Loader	DIRT	U.C. per hr	30.00	1 30	00E0940	0 $0	43.83 $1,315	0 $0	0 $0	0 $0	43.83 $1.315
	Equipment Operators. Medium Equipment	DIRT	U.C. per hr	30.00	3 90	CN-EQMD $34.75	104.25 $3,128	0 $0	0 $0	0 $0	0 $0	104.25 63.128
	12 cy End Dump	DIRT	U.C. per hr	20.00	1 20	00E2010	0 $0	31.45 $629	0 $0	0 $0	0 $0	31.45 $629

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.05	Grade Pond											
		DIRT	U.C. per hr		1	00E2050	0	31.38	0	0	0	31.38
	4000 gal Water Truck			20.00	20		$0	$628	SO	SO	$0	$628
		DIRT	U.C. per hr		2	CN-TRHV	66.96	0	0	0	0	66.96
	Truck Drivers. Heavy			20.00	40	$33.48	$1,339	$0	SO	SO	SO	$1.339
		DIRT	U.C. per hr		2	CN-LABR	63.16	0	0	0	0	63.16
	Laborer			20.00	40	$31.58	$1,263	$0	SO	SO	$0	$1,263
	Subtotal						$7,057	$4,667	SO	SO	SO	$11.724
	Sales Tax						$0	SO	SO	$0	SO	$0
	INEEL/Subcontractor Overheads		41.93%				$2,959	$1,957	SO	$0	$0	$4,916
	Subtotal Estlmate											$16,640
	Escalation						SO	SO	$0	SO	SO	$0
	Contingency						$1,002	$662	$0	$0	SO	$1,664
	—Total 3102.09 Grade Pond				210		$11,017	$7,286	SO	$0	$0	$18,304
9102.06	Pond Lner											
		LINE	U.C. per sf		0.003	CN-LABR	0.095	0	0.18	0	0	0.275
	16oz Geotex Cushion			165,600.00	497	$31.58	$15,689	SO	$29,808	$0	$0	$45,497
		UNE	U.C. per sf		0.004	CN-LABR	0.126	0	0.35	0	0	0.476
	60 mill HDPE Secondary Uner			165,600.00	662	$31.58	$20,919	$0	$57,960	$0	SO	$78.879
		LINE	U.C. per sf		0.003	CN-LABR	0.095	0	0.25	0	0	0.345
	Geonet			165,600.00	497	$31.58	$15.689	SO	$41,400	SO	$0	$57,089
		LINE	U.C. per sf		0.004	CN-LABR	0.126	0	0.35	0	0	0.476
	60 mill HDPE Primary Uner			165,600.00	682	$31.58	$20,919	$0	$57,960	SO	SO	$78,879
		LINE	U.C. per ea		9	CN-LABR	284.22	0	20	0	0	304.22
	Ballast Bags			165.00	1.485	$31.58	$46,896	$0	$3,300	$0	SO	$50,196
		LINE	U.C. per ea		0.25	CN-LABR	7.895	0	10	0	0	17.895
	Ladder Rungs			40.00	10	531.58	$316	SO	$400	$0	$0	$716

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DETAIL ITEM REPORT

Project Name: Tank F a n Interim Action Phase 1

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.08 Pond Liner											
LINE		U.C. per ea		40	CN:LABR	1263.2	0	50	0	0	13132
Sump			100	40	$31.58	$1.263	$0	$50	$0	$0	$1,313
Subtotal						$121,690	$0	$190,878	$0	$0	$312,568
Sales Tax						$0	$0	$9,544	$0	$0	$9,544
INEEL/Subcontractor Overheads		68.86%				$83.799	$0	$138,015	$0	$0	$221,814
Subtotal Estimate											$543,926
Escalation						$0	$0	$0	$0	$0	$0
Contingency						$20,549	$0	$33,844	$0	$0	$54,393
— Total **9102.06** Pond Liner				3,853		$226,038	$0	$372,281	$0	$a	$598,319
9102.07 Ex and Fill Ductbank											
		U.C. per				0	0	0.01	0	0	0.01
"EXCEPTION"			100	0		$0	$0	$0	$0	$0	$0
DIRT		U.C. per hr		1	WE0930	0	28.68	0	0	0	28.68
Case 590 Loader/Hoe			20.00	20		$0	$574	$0	$0	$0	$574
DIRT		U.C. par hr		1	CN-EQMD	34.75	0	0	0	0	34.75
Equipment Operators. Medium Equipment			20.00	20	$34.75	$695	$0	$0	$0	$0	$695
DIRT		U.C. par ht		1	CN-LABE	32.44	0	0	0	0	32.44
LABORER EXCAVATION, BACKFILL, FOUNDATIONS. TRENCHES			20.00	20	$32.44	$649	$0	$0	$0	$0	$649
		U.C. pet				0	0	0.01	0	0	0.01
"FILL"			1.00	0		$0	$0	$0	$0	$0	$0
DIRT		U.C. per hr		1	00E0930	0	28.68	0	0	0	28.88
Case 590 Loader/Hoe			10.00	10		$0	$287	$0	$0	$0	$287
DIRT		U.C. per hr		1	00E0620	0	11.82	0	0	0	11.82
Bowmag BW90 Compactor			10.00	10		$0	$118	$0	$0	$0	$118
DIRT		U.C. per hr		2	CN-EQMD	59.5	0	0	0	0	69.5
Equipment Operaton. Medium Equipment			10.00	20	$34.75	$695	$0	$0	$0	$0	$695

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.07	Ex and Fill Ductbank											
	DIRT		U.C. per hr		3	CN-LABE	97.32	0	0	0	0	97.32
	LABORER EXCAVATION. BACKFILL, FOUNDATIONS, TRENCHES			10.00	30	$32.44	$973	$0	M	$0	$0	$973
	Subtotal						$3.012	$979	$0	$0	$0	$3,991
	Sates Tax						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		41.93%				$1,263	5410	$0	$0	$0	$1,673
	Subtotal Estimate											$5,664
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$428	$139	$0	$0	$0	$566
	—Total 9102.07 Ex and Fill Ductbank				90		$4,703	$1,528	$0	$0	$0	$6,230
9103.01	Head and End Walls											
	Form & Strip	GEN	U.C. per sf	732.00	02 146	CN-CARC $37.16	7.432 $5,440	1.35 $988	0 $0	0 $0	0 $0	8.782 $6,428
	Place Rebar	GEN	U.C. per lb	900.00	0.012 11	CN-IRON $43.50	0.522 $470	0.05 $45	0.35 $315	0 $0	0 $0	0.922 $830
	Place Concrete	GEN	U.C. per cy	10.50	0.5 5	CN-LABR $31.58	15.79 $166	0 $0	100 $1,050	0 $0	0 $0	115.79 $1.216
	Cure Concrete	GEN	U.C. per sf	732.00	0.01 7	CN-LABR $31.58	0.316 $231	0.06 $44	0 $0	0 $0	0 $0	0.376 $275
	Subtotal						$6,307	$1,077	$1.365	$0	$0	$8,749
	Sales Tax						$0	$0	$68	$0	$0	$68
	INEEL/Subcontractor Overheads		29.03%				$1,831	$313	$416	$0	$0	$2,560
	Subtotal Estimate											$11,377
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$814	$139	$185	$0	$0	$1.138
	—Total 9103.01 Head and End Walls				170		$1,952	$1,529	$2,034	$0	$0	$12,514
9103.02	Concrete Ditches											
	Type 1 and 2 Conc Place	GEN	U.C. per q	50.00	3 150	CN-LABR $31.56	94.74 54.737	0 $0	80 $4,000	0 $0	0 $0	174 74 $6.737
	Type 3 Conc Place	GEN	U.C. per cy	137.00	4 548	CN-LABR $31.58	126.32 $17,306	0 $0	80 $10,960	0 $0	0 $0	206.32 $28,266

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim* Action Phase 1

Project Location: *INTEC*
Estimate Number: *2960-A*

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9103.02 Concrete Ditches											
Place Rebar	GEN	U.C. per lb	15,200.00	0.013 198	CN-IRON $43.60	0.566 $8,596	0.05 $760	0 35 $5.320	0 $0	0 $0	0.966 $14,676
Subtotal						$30.638	$760	$20,280	$0	$0	$51,678
Sales Tax						$0	$0	$1.014	$0	$0	$1.014
INEEL/Subcontractor Overheads		29.03%				$8,894	$221	$6,182	$0	$0	$15.297
Subtotal Estimate											$67,989
Escalation						$0	$0	$0	$0	$0	$0
Contingency						$3,953	$98	$2,748	$0	$0	$6.799
— Total 9103.02 Concrete Ditched				896		$43,486	51.079	530,223	$0	$0	574,708
9103.03 New Ductbank											
Form & Strip	GEN	U.C. per sf	340.00	0.18 61	CN-CARC $37.16	6.689 $2,274	1.2 $408	0 $0	0 $0	0 $0	7.889 $2.682
Place Rebar	GEN	U.C. per lb	1,800.00	0.012 22	CN-IRON $43.50	0.522 $940	0.05 $90	0.35 $630	0 $0	0 $0	0.922 $1.660
Place Concrete	GEN	U.C. per cy	28.00	0.5 14	CN-LABR $31.58	15.78 $442	0 $0	100 $2,800	0 $0	0 $0	115.79 $3.242
Cure Concrete	GEN	U.C. per sf	680.00	0.01 7	CN-LABR $31.58	0.316 $215	0.06 $41	0 $0	0 $0	0 $0	0.376 5256
Subtotal						$3,871	$539	$3.430	$0	$0	$7,839
Sales Tax						$0	$0	$172	$0	$0	$172
INEEL/Subcontractor Overheads		29.03%				$1,124	$156	$1,046	$0	$0	$2,326
Subtotal Estimate											$10,337
Escalation						$0	$0	$0	$0	$0	50
Contingency						$499	$70	$465	$0	$0	$1.034
— Total 9103.03 New Ductbank				104		$5,494	$765	$5,112	$0	$0	$11,370
9105.01 Frame at Pond											
Gruar Posts	STEEL	U.C. per ea	2.00	4 8	CN-IRON $43.50	174 $348	0 $0	50 $100	0 $0	0 $0	224 $448

J-2-14

DETAIL ITEM REPORT

Project Name: ***Tank Farm Interim Action Phase 1***

Project Location: ***INTEC***
Estimate Number: ***2960-A***

Client: ***N. K. Rogers***
Prepared By: ***J. C. Grenz***
Estimate Type: ***Title II***

Code	Description	contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
p105.01 Frame at **Pond**												
		STEEL	U.C. par ea		8	CN-IRON	348	0	100	0	0	448
	Structural Frame			1.00	8	$43.50	$348	$0	$100	$0	$0	$448
	Subtotal						$696	$0	$200	$0	$0	$896
	Sales Tax						$0	$0	$10	$0	$0	$10
	INEEL/Subcontractor Overheads		41.93%				$292	$0	$88	$0	$0	$380
	Subtotal Ettlmate											$1,286
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$99	$0	$30	$0	$0	$129
—Total **9105.01 Frame** at Pond					16		$1,087	$0	$326	$0	$0	$1.415
9115.01 Pipe at **Pond**												
		PIPE	U.C. per lf		0.3	CN-PIPE	11.799	0	8.5	0	0	20.299
	12" dia HDPE			80.00	24	$39.33	$944	$0	$680	$0	$0	$1,624
		PIPE	U.C. per lf		0.25	CN-PIPE	9.833	0	1.8	0	0	11.633
	1 1/2" sch 80 PVC			100.00	25	$39.33	$983	$0	$180	$0	$0	$1,163
		PIPE	U.C. per ea		8	CN-PIPE	314.64	0	6000	0	0	6314.64
	1/2 HP Pump and Controler			1.00	8	$38.33	$315	$0	$6,000	$0	$0	$8,325
		PIPE	U.C. per lf		0.25	CN-PIPE	9.833	0	1.5	0	0	11.333
	1/2" sch 80 PVC			20.00	5	$39.33	$197	$0	$30	$0	$0	$227
		PIPE	U.C. per ea		0.5	CN-PIPE	19.865	0	11.5	0	0	31.165
	1 1/2" PVC DFittings			6.00	3	$39.33	$118	$0	$69	$0	$0	$187
		PIPE	U.C. per ea		0.5	CN-PIPE	19.665	0	5	0	0	24.665
	1/2" PVC DFittings			6.00	3	$39.33	$118	$0	$30	$0	$0	$148
		PIPE	U.C. per ea		0.5	CN-PIPE	19.68	0	25	0	0	44.65
	1/4 Ball Valva			1.00	1	$39.32	$20	$0	$25	$0	$0	$45
		PIPE	U.C. per ea		5	CN-PIPE	196.65	0	1200	0	0	1396.65
	1" Totalizer			1.00	5	$39.33	$197	$0	$1,200	$0	$0	$1,397
	Subtotal						$2,891	$0	$8.214	$0	$0	$11,105
	Sales Tax						$0	$0	$411	$0	$0	$411
	INEEL/Subcontractor Overheads		48.10%				$1.391	$0	$4.149	$0	$0	$5,539
	Subtotal Estlmate											$17,055
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$428	$0	$1.277	$0	$0	$1.705
--Total **9115.01 Pipe** at Pond					74		$4,709	$0	$14,051	L0	$0	$18,760

DETAIL ITEM REPORT

Project Name: ***Tank Farm Interim Action Phase 1***

Project Location: ***INTEC***
Estimate Number: ***2960-A***

Client: N ***K.*** Rogers
Prepared By: J C ***Grenz***
Estimate Type: ***Title II***

Code Description Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9116.2 SWITCHGEAR, TRANSFORMERS, AND DEVICES										
ELEC	U.C. per Ea		2.5	CN-ELEC	89.72	0	331	0	0	420.72
600 volt. 60A NF Disconnect Nema 3R		1.00	3	$35.89	$90	$0	$331	$0	$0	$421
ELEC	U.C. per Ea		0.5	CN-ELEC	17.95	0	125	0	0	142.95
GE#9L15ECB001 Surge Arrestor		1.00	1	$35.90	$18	$0	$125	$0	$0	$143
ELEC	U.C. per Ea		6	CN-ELEC	215.34	0	2500	0	0	2715.34
Transformer/Dist. Center		1.00	6	$35.89	$215	$0	$2,500	$0	$0	$2,715
ELEC	U.C. per Ea		8	CN-ELEC	215.34	0	0	0	0	215 34
CP-CW2-902 Pump Control Panel		1.00	6	$35.89	$215	$0	$0	$0	$0	$215
Memo: Control panel and ultra sonic level switches are included in the pump pricing. Equipment will be installed by the electrical contractor.										
ELEC	U.C. per Ea		0.5	CN-ELEC	17.847	0	0	0	0	17.947
LS-CW-2-203-3 Ultra Sonic Level Switch, GEM ULS-10		3.00	2	$35.89	$54	$0	$0	$0	$0	$54
Subtotal					$592	$0	$2,958	$0	$0	$3,548
Sales Tax					$0	$0	$148	$0	$0	$148
INEEL/Subcontractor Overheads	41.93%				$248	$0	$1,302	$0	$0	$1,550
Subtotal Estimate										$1,246
Escalation					$0	$0	$0	$0	$0	$0
Contingency					$84	$0	$441	$0	$0	$525
— Total **9116.2 SWITCHGEAR, TRANSFORMERS, AND DEVICES**			17		$925	$0	$4,846	$0	$0	$5,770
9116.3 RACEWAYS AND ENCLOSURES										
ELEC	U.C. per Ea		0.5	CN-ELEC	17.947	0	13.5	0	0	31.447
3/4" EYS with Sealing Compound		3.w	2	$35.89	$54	$0	$41	$0	$0	$94
ELEC	U.C. per Lf		0.08	CN-ELEC	2.871	0	2.12	0	0	4.991
3/4" Sealtite Flex		80.00	6	$35.89	$230	$0	$170	$0	$0	$399
ELEC	U.C. per Ea		0.2	CN-ELEC	7.178	0	5	0	0	12.178
3/4" Sealtite flex Connectors		8.W	2	$35.89	$57	$0	$40	$0	$0	$97
ELEC	U.C. per Ea		0.3	CN-ELEC	10.77	0	25	0	0	35.77
FS box, 3/4" Hubs, with gasket and cover		1.00	0	$35.90	$11	W	$25	$0	$0	$36
ELEC	U.C. per Ls		1	CN-ELEC	35.89	0	50	0	0	85.89
SST hose clamps		1.00	1	$35.89	$36	$0	$50	$0	$0	$86
ELEC	U.C. per Ea				0	0	0	250	0	250
5" core drills		4.00	0		$0	$0	$0	$1,000	$0	$1,000
ELEC	U.C. per Lf		0.3	CN-ELEC	10.767	0	8.4	0	0	19.167
4" Rigid Conduit		700.00	210	$35.89	$7,537	$0	$5,880	$0	$0	$13,417
ELEC	U.C. per Ea		2	CN-ELEC	71.78	0	250	0	0	321.78
4 Rigid 90 deg. ells with couplings		4.00	8	$35.89	$287	$0	$1,000	$0	$0	$1,287

DETAIL ITEM REPORT

Project Name: **Tank Farm Interim Action Phase 1**

Project Location: **INTEC**
Estimate Number: **2960-A**

Client: *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9116.3 RACEWAYS AND ENCLOSURES												
	4" Grounding Bushings	ELEC	U.C. per Ea	4.00	0.5 2	CN-ELEC $35.89	17.945 $72	0 $0	50 $200	0 $0	0 $0	67.945 3272
	5" PVC Conduit	ELEC	U.C. per Lf	720.00	0.08 58	CN-ELEC $35.89	2.871 $2,067	0 $0	2.3 $1.656	0 $0	0 $0	5.171 $3,723
	5" PVC Couplings	ELEC	U.C. per Ea	16.00	0.3 5	CN-ELEC $35.89	10.767 $172	0 $0	12 $192	0 $0	0 $0	22.767 $364
	5 Spacers	ELEC	U.C. per Ea	100.00	0.1 10	CN-ELEC $35.69	3.589 $359	0 $0	1.5 $150	0 $0	0 $0	5.089 $509
	Subtotal						$10,882	$0	$9,403	$1.000	$0	$21,285
	Sales Tax						$0	$0	$470	$0	$0	$470
	INEEL/Subcontractor Overheads		41.93%				$4,563	$0	$4,140	$419	$0	$9,123
	Subtotal Estimate											$30,878
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$1,544	$0	$1,401	$142	$0	$3,088
— Total **9116.3** RACEWAYS AND ENCLOSURES					303		$16,989	$0	$15,415	$1,581	$0	$33,965
9116.4.1 PUMP POWER AND CONTROL CABLES												
	Pump Power Cord, Install only. furnished with pump	ELEC	U.C. per Lf	40.00	0.05 2	CN-ELEC $35.69	1.795 $72	0 $0	0 $0	0 $0	0 $0	1.795 $72
	Coax Cable, supplied with pump	ELEC	U.C. per LF	40.00	0.05 2	CN-ELEC $35.89	1.795 $72	0 $0	0 $0	0 $0	0 $0	1.795 $72
	Subtotal						$144	$0	$0	$0	$0	$144
	Sales Tax						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		41.93%				$60	$0	$0	$0	$0	$60
	Subtotal Estimate											$204
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$20	$0	$0	$0	$0	$20
--Total **9116.4.1** PUMP POWER AND CONTROL CABLES					4		$224	$0	$0	$0	$0	$224
0116.4.2 600 VOLT CABLE AND POWER CABLE												
	New 4/0 15kV power	ELEC	U.C. per Lf	3,300.00	0.048 158	CN-ELEC $35.89	1.723 $5,685	0 $0	3.5 $11,550	0 $0	0 $0	5.223 $17,235
	1/0 Ground	ELEC	U.C. per Lf	1,100.00	0.024 26	CN-ELEC $35.89	0.861 $948	0 $0	0.8 $880	0 $0	0 $0	1.661 $1.828
	Confined space entry	ELEC	U.C. per Ea	6.00	4 24	CN-ELEC $35.89	143.56 $861	0 $0	0 $0	0 $0	0 $0	143.56 $861

DETAIL ITEM REPORT

Project Name: *Tank* Farm Interim *Action Phase 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Description	Contractor		Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9116.4.2	600 VOLT CABLE AND POWER CABLE											
		ELEC	U.C. per Lf		0.048	CN-ELEC	1.723	0	35	0	0	5 223
	New TEMPORARY 4/0 15kV power			2,100.00	101	$35.89	$3.618	$0	$7,350	$0	$0	$10,968
		ELEC	U.C. per Lf		0.024	CKELEC	0.861	0	0.8	0	0	1661
	Temporary 1/0 Ground			700.00	17	$35.69	$603	$0	$560	$0	$0	$1.163
		ELEC	U.C. per Ea		4	CN-ELEC	143.56	0	0	0	0	143 56
	Confined *space* entry for installation of temporary cables			4.00	16	$35.89	$574	$0	$0	$0	$0	$574
		ELEC	U.C. per Ea		4	CN-ELEC	143.56	0	46	0	0	191 56
	Splice kits			24.00	96	L35.89	$3,445	$0	$1.152	$0	$0	$4,597
	Subtotal						$15,734	$0	$21,492	$0	$0	$37,226
	Sales Tax						$0	$0	$1,075	MI	$0	$1,075
	INEEL/Subcontractor Overheads		41.93%				$6,598	$0	$9,463	$0	$0	$16,061
	Subtotal Estimate											$54,361
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$2,233	$0	$3,203	$0	$0	$5,436
--Total	9116.4.2 600 VOLT CABLE AND POWER CABLE				438		$24,566	$0	$35.232	$0	$0	$59,798
9116.5	TESTING											
		ELEC	U C. per Ea		4	CN-ELEC	143 56	0	0	0	0	143 56
	Hi-Pot testing			12 00	48	$3589	$1.723	$0	$0	$0	$0	$1,723
		ELEC	U C per Ls		16	CN-ELEC	574 24	0	0	0	0	574 24
	Testing of electrical systems and equipment			1.00	16	$35 89	$574	$0	$0	$0	$0	$574
	Subtotal						$2,297	$0	$0	$0	$0	$2 291
	Sales Tax						SO	$0	$0	$0	MI	SO
	INEEL/Subcontractor Overheads		41.93%				$963	$0	SO	$0	$0	$963
	Subtotal Estimate											$3,260
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$326	$0	$0	$0	$0	$326
---Total	9116.5 TESTING				64		$3,886	$0	$0	$0	$0	$3.586

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase 1*

Project Location: *INTEC*
Estimate Number: *2960-A*

Client. *N. K. Rogers*
Prepared By: *J. C. Grenz*
Estimate Type: *Title II*

Code	Description	Contractor	Qty	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
	Subtotal TF Phase I					$265,313	$16,143	$258,218	$27,625	$0	$567,300
	Sales Tax					$0	$0	$12,911	$0	$0	$12,911
	INEEL/Subcontractor Overheads					$133.376	$6,197	$164,800	$8.449	$0	$312.522
	Subtotal Estimate										$092.732
	Escalation					$0	$0	$0	$0	$0	*$0*
	Contingency					$39,869	$2,234	$43,593	$3,577	$0	$89,273
	Total TF Phase I			7,862		$438,559	$24,574	$479,522	$39,351	$0	$982,005

Appendix J–3

Revised Phase II Detailed Cost Estimate

Project Summary Report

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-8*

Client: *J. C. Hurst*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Continaencv%	TOTAL
1000		CONSTRUCTION MANAGEMENT	$180,187	$0	$36,037	20.00%	$216,224
1100		--CONSTRUCTION SUPERVISION 8 ENGINEERING	$180,187	$0	$36,037	20.00%	$216,224
5000		PROJECT MANAGEMENT	$57,912	SO	$8,687	15.00%	$66.599
5100		– PM ADMINISTRATION	$57,912	$0	$8,687	15.00%	$66,599
9000		CONSTRUCTION	$205,305	$0	$41,061	20.00%	$246,366
9100		--CONSTRUCTION SUBCONTRACTS	$179,332	$0	$35,866	20.00%	$215,198
9101		-—GENERAL CONDITIONS	$56,598	SO	$11,320	20.00%	$67,917
9102		---SITEWORK	$122,734	to	$24,547	20.00%	$147,281
9102.01		-—–Grade Surface for Pavement	$39,966	$0	$7,993	20.00%	$47,960
9102.02		——Pave Over Tanks	$17.247	$0	$3,449	20.00%	$20,696
9102.03		–---Pave on Slope	$5,457	$0	$1,091	20.00%	$6.548
9102.04		-----Excavate for Pipe	$53.288	$0	$10,658	20.00%	$63,946
9102.05		-----Install Pipes	$6,775	$0	$1.355	20.00%	$8.131
9300		--CONSTRUCTION SUPPORT	$17,149	$0	$3,430	20.00%	$20.579
9310		–-CONSTRUCTION SUPPORT - RADTECH	$17,149	SO	$3,430	20.00%	$20,579
9400		--CONSTRUCTION QUALITY CONTROL	$8,824	$0	$1,765	20.00%	$10,589
Total Tank Farm Phase II			$443,404	$0	$85,785	19.35%	$529,189

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hurst*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Eauipment	Material	Subcontractor	Other	TOTAL
1100 CONSTRUCTION SUPERVISION & ENGINEERING													
	CM SUBCONTRACT TECH. REP. (pre job)	BBWI-C	U.C. perhr	80.00	hr	1 80	595.52 F27	95.52 $7,642	0 $0	0 $0	0 $0	0 $0	95 52 $7,642
	CM PLANNER (pre job)	BBWI-A	U.C. per hr	40.00	hr	1 40	$58.05 F10	58.055 $2.322	0 $0	0 $0	0 $0	0 $0	58 055 $2,322
	SIC ADMINISTRATOR (pre job)	BBWI-A	U.C. per hr	80.00	hr	1 80	$64.87 P21	64 868 $5.189	0 $0	0 $0	0 $0	0 $0	64 868 $5,189
	CM CONSTRUCTION COORDINATOR	BBWI-C	U.C. per wk	15.00	wk	10 150	$106.16 F25	1061.6 $15,924	0 $0	0 $0	0 $0	0 $0	1061 6 $15,924
	CM FIELD ENGINEER	BBWI-C	U.C. per wk	15.00	wk	10 150	$110.26 F26	1102.6 $16,539	0 $0	0 $0	0 $0	0 $0	1102 6 $16.539
	CM SUBCONTRACT TECH. REP.	BBWI-C	U.C. per wk	15.00	wk	40 600	$95.52 F27	38208 $57.312	0 $0	0 $0	0 $0	0 $0	38208 $57,312
	CM PLANNER	BBWI-A	U.C. per wk	15.00	wk	5 75	$58.05 F10	290 274 $4.354	0 $0	0 $0	0 $0	0 $0	290 274 $4, 354
	QUALITY	BBWI-A	U.C. per wk	15.00	wit	10 150	174.45 E17	744 284 $11,164	0 $0	0 $0	0 $0	0 $0	744 284 $11,164
	SAFETY	BBWI-A	U.C. per wk	15.00	wk	10 150	$76.85 E19	768 537 $11.528	0 $0	0 $0	0 $0	0 $0	768 537 $11,528
	INDUSTRIAL HYGIENE	BBWI-A	U.C. per wk	15.00	wk	5 75	170.89 S08	354 445 $5,317	0 $0	0 $0	0 $0	0 $0	354.445 $5.317
	PROCUREMENT- S/C ADMINISTRATOR	BBWI-A	U C. per wk	15.00	wk	10 150	$64.87 P21	648675 $9,730	0 $0	0 $0	0 $0	0 $0	648 675 $9,730

DETAIL ITEM REPORT

Project Name: ***Tank Farm Interim Action Phase II Construction***
Project Location: ***INTEC***
Estimate Number: ***2960-B***

Client: ***J. C. Hurst***
Prepared By: ***J. C. Grenz***
Estimate Type: ***Planning***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
1100	CONSTRUCTION SUPERVISION & ENGINEERING											
		BBWI-A	*U.C. per wk*		*5*	*$79.75*	*398.747*	*0*	*0*	*0*	*0*	*398.747*
	ENVIRONMENTAL		15.00	wk	75	E08	$5,981	$0	$0	$0	$0	$5,981
	Subtotal						$153,003	$0	$0	$0	$0	$153,003
	Sales Tax						$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads	17.77%					527.184	$0	$0	$0	$0	$27.184
	Subtotal Estimate											$180,187
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$36,037	$0	$0	$0	$0	$36,037
	—Total 1100 CONSTRUCTION SUPERVISION & ENGINEERING				1,775		$216,224	$0	$0	50	$0	$216,224
5100 PM	ADMINISTRATION											
		BBWI-A	*U.C. per LOT*		*4*	*$96.80*	*387.18*	*0*	*0*	*0*	*0*	*387.18*
	ORIGINATE WCF		1.00	LOT	4	E34	$387	$0	$0	$0	$0	$387
		BBWI-A	*U.C. per LOT*		*40*	*f96.80*	*3871.8*	*0*	*0*	*0*	*0*	*3871.8*
	FINALIZE HPSC		1.00	LOT	40	E34	$3,872	$0	$0	$0	$0	$3,872
		BBWI-A	*U.C. per Lot*		10	*$96.80*	*967.95*	*0*	*0*	*0*	*0*	*967.95*
	Assemble Planning Team		1.00	Lot	10	E34	$968	$0	$0	$0	$0	5968
		BBWI-A	*U.C. per LOT*		*4*	*$96.80*	*387.18*	*0*	*0*	*0*	*0*	*387.18*
	DETERMINE PLANNING LEVEL AND UPDATE WCF		1.00	LOT	4	E34	$387	$0	$0	$0	$0	9387
		BBWI-A	*U.C. per LOT*		30	*$96.80*	2903.85	*0*	*0*	*0*	*0*	2903.85
	PREPARE SUPPORTING HAZARDS PROJECT DOCUMENTATION		1.00	LOT	30	E34	$2,904	$0	$0	$0	$0	$2,904
		BBWI-A	*U.C. per LOT*		*10*	*$96.80*	*967.95*	*0*	*0*	*0*	*0*	*967.95*
	POST JOB REVIEW		1.00	LOT	10	E34	$968	$0	$0	$0	50	$968
		BBWI-A	*U.C. per wk*		*20*	*$90.78*	*1815.577*	*0*	*0*	*0*	*0*	*1815.577*
	PROJECT MANAGEMENT		20.00	wk	400	Z09	$36.312	$0	$0	$0	$0	$36,312

J-3-5

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: 2960-5

Client: *J. C. Hurst*
Prepared By: J. C. *Grenz*
Estimate Type: Planning

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
5100 PM ADMINISTRATION													
	Revise SAR	BBWI-A	*U.C. per wk*	2.00	wk	*40* 80	*$76.85* E19	*3074.15* $6,148	*0* $0	*0* $0	*0* $0	*20* $40	*3094 15* $6.188
	Subtotal							$51,946	$0	$0	$0	$40	$51,986
	Sales Tax							$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		11.40%					$5,922	$0	$0	$0	$5	$5,926
	Subtotal Estimate												$57,912
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$8,680	$0	$0	$0	$7	$8.687
--Total 5100 PM ADMINISTRATION						578		$66,548	$0	$0	$0	$51	$66,599
9101 GENERAL CONDITIONS													
	WORKABILITY WALKDOWN- 1 HR/DAY X _10_ WORKERS X 4 DAY/WK	GEN	*U.C. per Wks*	15.00	Wks	*40* 600	*$32.44* CN-LABE	*7297.6* $19,464	*0* $0	*0* $0	*0* $0	*0* $0	*1297 6* $19,464
	POST JOB REVIEW	GEN	*U.C. per LOT*	7.00	LOT	*10* 10	*$40.00* CN-SUPR	*400* $400	*0* $0	*0* $0	0 $0	*0* $0	400 $400
	Non-working Super	GEN	*U.C. per whs*	15.00	wks	*40* 600	*$40.00* CN-SUPR	*1600* $24,000	*0* $0	*0* $0	*0* $0	0 $0	*1600* $24,000
	Subtotal							$43,864	$0	$0	$0	$0	$43.864
	Sales Tax							$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		29.03%					$12.734	$0	$0	$0	$0	$12,734
	Subtotal Estimate												$56,598
	Escalation							$0	$0	$0	$0	$0	$0
	Continaencv							$11.320	SO	$0	$0	$0	$11,320
---Total 9101 GENERAL CONDITIONS						1,210		$67,817	$0	$0	$0	$0	$67,917

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hursf*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.01 Grade Surface for **Pavement**													
00E0930		GEN	*U.C. per hr*			*1*		*0*	*28.68*	*0*	*0*	*0*	*26 68*
	Case 590 Loader/Hoe			120.00	hr	120	00E0930	$0	$3,442	$0	$0	$0	$3.442
00E2010		GEN	*U.C. per hr*			*1*		*0*	*31.45*	*0*	*0*	*0*	*31 45*
	12 cy End Dump			120.00	hr	120	00E2010	$0	$3,774	$0	$0	$0	$3.774
CN-EQMD		GEN	*U.C. per hr*			*1*	*$34.75*	*34.75*	*0*	*0*	*a*	*0*	*34 75*
	Equipment Operators, Medium Equipment			120.00	hr	120	CN-EQMD	$4,170	$0	$0	$0	$0	$4.170
CN-TRHV		GEN	*U.C. per hr*			*1*	*533.48*	*33.48*	*0*	*0*	*0*	*0*	*33 48*
	Truck Drivers. Heavy			120.W	hr	120	CN-TRHV	$4,018	$0	$0	$0	$0	$4,018
CN-LABE		GEN	*U.C. per hr*			*4*	*$32.44*	*129.76*	*0*	*0*	*0*	*0*	*129 76*
	LABORER EXCAVATION. BACKFILL. FOUNDATIONS. TRENCHES			120.00	hr	480	CN-LABE	$15.571	$0	$0	$0	$0	$15,571
	Subtotal							$23.759	$7.218	$0	$0	$0	$30.974
	Sales Tax							$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		29.03%					$6,897	$2,095	$0	$0	$0	$8,992
	Subtotal **Estimate**												$39,966
	Escalation							$0	$0	$0	$0	$0	$0
	Continaencv							$8.131	$1.862	$0	$0	$0	$7,993
---Total **9102.01** Grade Surface **for** Pavement						720		$36,787	511,172	$0	$0	$0	$47,960
9102.02 Pave **Over** Tanks													
		DIRT	*U.C. per sf*			*0.003*	*$34.75*	*0.704*	*0.07*	*0.35*	*0*	*0*	*0.524*
	Place Pavement			11,800.00	sf	35	CN-EQMD	$1,230	$826	$4,130	$0	$0	$6.186

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hursf*
Prepared By: *J.* C *Grenz*
Estimate Type: *Planning*

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Eauinment	Material	Subcontractor	Other	TOTAL
9102.02	Pave Over Tanka												
	Add Pavement at Pipes	DIRT	*U.C. per sf*	300.00	sf	*0.1* 30	*534.75* CN-ECIMD	*3.475* $1.043	*15* $4,500	*0.55* $165	*0* $0	*0* $0	*19025* $5.708
	Subtotal							$2,273	$5,326	$4,295	$0	$0	$11.894
	Sales Tax							$0	$0	$258	$0	$0	$258
	INEEL/Subcontractor Overheads		41.93%					$953	$2,233	$1,909	$0	$0	$5,095
	Subtotal Estimate												**$17,247**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$645	$1,512	$1,292	$0	$0	$3,449
---Total	9102.02 Pave Over Tanks					65		$3,871	$9,071	$7,754	$0	$0	$20.696
Q102.03	Pave on Slope												
	Place Pavement	DIRT	*U.C per sf*	4,500.00	sf	*0.003* 14	*534.75* CN-ECIMD	*a.104* $469	*0.07* $315	*0.35* $1,575	*0* $0	*0* $0	*0524* $2.359
	Add Pavement at Pips	**DIRT**	*U.C. per sf*	50.00	sf	*0.1* 5	*$34.75* CN-EQMD	*3.475* $174	*15* $750	*0.55* $28	*0* $0	0 $0	13.025 $951
	Add Equipment	DIRT	*U.C per hr*	10.00	hr	1 10	00E0940	*0* $0	*43 83* $438	*0* $0	*0* $0	*0* SO	43 83 **$438**
	Memo: This equipment is used to pull the paving equipment **up** and **down** the slope.												
	Subtotal							$643	$1,503	$1,603	$0	$0	$3,749
	Sales Tax							$0	$0	$96	$0	$0	$96
	INEEL/Subcontractor Overheads		41.93%					$270	$630	$712	$0	$0	$1,612
	Subtotal Estimate												**$5,457**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$182	$427	$482	$0	$0	$1,091
---Total	9102.03 Pave on Slope					19		$1,095	$2,560	$2,893	$0	$0	56,548

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hursf*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.04	Excavate for Pipe												
00E0930		GEN	*U.C. per hr*			*1*		*0*	*28.68*	*0*	*0*	*0*	*28.68*
	Case 590 Loader/Hoe			160.00	hr	160	00E0930	$0	$4,589	$0	$0	$0	$4.589
00E2010		GEN	*U.C. per hr*			*1*		0	31.45	*0*	*0*	*0*	*31.45*
	12 cy End Dump			160.00	hr	160	00E2010	$0	$5,032	$0	$0	$0	$5,032
CN-EQMD		GEN	*U.C. per hr*			*1*	*$34.75*	*34.75*	*0*	*0*	*0*	*0*	*34.75*
	Equipment Operators, Medium Equipment			160.00	hr	160	CN-EQMD	$5,560	$0	$0	$0	$0	$5.560
CN-TRHV		GEN	*U.C. per hr*			*1*	*$33.48*	*33.48*	*0*	*0*	*0*	*0*	*33.48*
	Truck Drivers. Heavy			160.00	hr	160	CN-TRHV	$5,357	$0	$0	$0	$0	$5,357
CN-LABE		GEN	*U.C. per hr*			*4*	*$3244*	*129.76*	*0*	*0*	*0*	*0*	*129.76*
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS, TRENCHES			*160.00*	hr	840	CN-LABE	$20,762	$0	$0	$0	$0	$20.762
	Subtotal							$31.678	$9,621	$0	$0	$0	$41,299
	Sales Tax							$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		29.03%					$9.196	$2.793	$0	$0	$0	$11,989
	Subtotal Estimate												153,288
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$8.175	$2.483	$0	$0	$0	$10,658
--Total	**9102.04** Excavate for Pipe					960		$49,050	$14,896	$0	$0	$0	$63,946
9102.05	Install Pipes												
		GEN	*U.C. per lf*			*0.1*	*$32.44*	*3.244*	*0*	*4*	*0*	*0*	*7.244*
	6' CMP			70.00	lf	7	CN-LABE	$227	$0	$280	$0	$0	$507
		GEN	*U.C. per lf*			*0.08*	*$32.44*	*2.595*	*0*	*13*	*0*	*0*	*3.695*
	6" HOPE			1,000.00	lf	80	CN-LABE	$2,595	$0	$1.300	$0	$0	$3.895
		GEN	*U.C. per ea*			*0.5*	*$32.44*	*16.22*	*0*	*20*	*0*	*0*	*36.22*
	Couplers			7.00	ea	4	CN-LABE	$114	$0	$140	$0	$0	$254

DETAIL ITEM REPORT

Project Name: *Tank Farm Interim* Action
Phase II Construction
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C Hurst*
Prepared By: *J. C Grenz*
Estimate Type: *Planning*

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
9102.05 Install Pipes													
		GEN	*U.C. per ea*			*1*	*532.44*	*32.44*	*0*	*50*	*0*	*0*	82 44
	Pipe Sock			5.00	ea	5	CN-LABE	$162	$0	$250	$0	$0	$412
		GEN	*U.C. per ea*			*2*	*532.44*	*64 88*	*0*	*0*	*0*	*0*	*64 88*
	Ballast Tube (GFE)			1.00	ea	2	CN-LABE	$65	$0	$0	$0	$0	$65
	Subtotal							$3,163	$0	$1.970	$0	$0	$5,133
	Sales Tax							$0	$0	$118	$0	$0	$118
	INEEL/Subcontractor Overheads		29.03%					$918	$0	$606	$0	$0	$1,524
	Subtotal Estlmate												$6,775
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$816	$0	$539	$0	$0	$1.355
---Total 9102.05 Install Pipes						98		$4,897	$0	$3,233	$0	$0	$8,131
9310 CONSTRUCTION SUPPORT - RADTECH													
U60		BBWI-A	*U.C. per wk*			*20*	*$51.32*	*1026.301*	*0*	*0*	*0*	*0*	*1026301*
	RADIOLOGICAL CONTROL TECH			15.00	wk	300	U60	$15.395	$0	$0	$0	$0	$15,395
	Subtotal							$15,395	$0	$0	$0	$0	$15.395
	Sales Tax							$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads		11.40%					$1,755	$0	$0	$0	$0	$1,755
	Subtotal Estimate												$17,149
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$3,430	$0	$0	$0	$0	$3.430
--Total 9310 CONSTRUCTION SUPPORT - RADTECH						*300*		$20,579	t 0	$0	$0	$0	$20.579
9400 CONSTRUCTION QUALITY CONTROL													
Memo: first line *inspection activities performed* during *construction if* done by *BBWI personnel.* Includes *Material Lab, compaction,* and other tests *normally performed* by the company.													
T02		BBWI-A	*U.C. per wk*			*10*	*$52.81*	*528.069*	*0*	*0*	*0*	*0*	*528 069*
	CONST INSPECT TECH			15.00	wk	150	T02	$7.921	$0	$0	$0	$0	$7,921

DETAIL ITEM REPORT

Project Name: *Tank Farm interim Action Phase II Construction*
Project Location: *INTEC*
Estimate Number: *2960-B*

Client: *J. C. Hurst*
Prepared By: *J. C. Grenz*
Estimate Type: *Planning*

Code	Descriation	Contractor	Qty	UOM	Hrs	Resource Labor	Equipment	Material	Subcontractor	Other	TOTAL
9400	CONSTRUCTION QUALITY CONTROL										
Memo:	*First line inspection activities performed during construction if done by BBWI personnel. Includes Material Lab. compaction, and other tests normally performed by the company.*										
	Subtotal					$7.921	$0	$0	$0	$0	$7,921
	Sales Tax					$0	$0	$0	$0	$0	$0
	INEEL/Subcontractor Overheads	11.40%				$903	$0	$0	$0	$0	$903
	Subtotal Estimate										$8.824
	Escalation					$0	$0	$0	$0	$0	$0
	Contingency					$1,765	$0	$0	$0	$0	$1.765
---Total	9400 CONSTRUCTION QUALITY CONTROL				150	$10,589	$0	$0	$0	$0	$10,589
	Subtotal Tank Farm *Phase II*					$333,644	$23,666	$7,868	$0	$40	$365,227
	Sales Tax					$0	$0	$472	$0	$0	$472
	INEEL/Subcontractor Overheads					$66.732	$7,751	$3,228	$0	$5	$77,715
	Subtotal Estimate										$443,404
	Escalation					$0	$0	$0	$0	$0	$0
	Contingency					$77,182	$6,283	$2,313	$0	$7	$85,785
	Total Tank Farm Phase II				5,874	$477.557	$37,700	$13,881	$0	$5	$529,189

J-3-11

Appendix K

Operation and Maintenance Plan for INTEC Operable Unit 3-13, Group I , Tank Farm Interim Action, Phases I and ll (DOEAD-10771)

TO VIEW APPENDIX K SEE:

DOEKID-10771, REV.01

Appendix L

Waste Management Plan for INTEC
Operable Unit 3-13, Group I , Tank Farm Interim Action, Phases I and II
(DOE/ID-10770)

TO VIEW APPENDIX L SEE:

DOE/ID-10770, REV.03

Appendix M

Health and Safety Plan for Waste Area Group 3, Operable Unit 3-13, Group 1, Soils Tank Farm Interim Action (INEEL/EXT-2000-00194)

TO VIEW APPENDIX M SEE:

INEEL/EXT-2000-00194, REV.04

Appendix N

Compilation of Changes to RD/RA WP and Supporting Documents

Compilation of Changes to Remedial Design/Remedial Action Work Plan for Tank Farm Interim Action, Phases I and II and Supporting Documents

Item	Section/Page No.	Description	Justification
Reme	ial Design/Remedial Action Work Plan for Group 1 Tank Farm Interim Action (DOE/ID 10772)		
1	Cover page	Updated revision number and publish date	Updated for document control
2	Title page	Updated revision number and publish date	Updated for document control
3	Abstract	Inserted text to note remedial design changed due to Notice of Violation	NOV Agreement reached between IDEQ, EPA, and NE-ID changed remedial design scope of work
4	Foreword	Inserted to provide basis for revising document	Provides basis for revising document
5	Contents	Updated section numbers and appendices for agreement with revised document	Document revision
6	Acronyms	Added NOV to list	NOV used in revised document
7	Pg. 1-1/Section 1	Inserted text to note remedial design changed due to Notice of Violation	NOV Agreement reached between IDEQ, EPA, and NE-ID changed remedial design scope of work
8	Pg. 1-3/Fig. 1-2	Modified figure to reflect change in project scope (i.e. removed reference to spray-on liner and redrew boundaries of soil covering)	Change in remedial design scope of work as defined in NOV Agreement reached between IDEQ, EPA, and NE-ID
9	Pg. 1-41 Section 1.2	Redefined area to receive impermeable cover to CPP-28,-31, and –79.	Supports description of scope of work
10	Pg. 1-41 Section 1.3	Redefined area to receive impermeable cover to CPP-28,-31, and –79 and listed document appendices	Supports description of scope of work
11	Pg. 1-6/Fig. 1-3	Added new figure to show select locations for soil covers.	Supports description of scope of work
12	Pg. 2-11 Section 2.0	Redefined area to receive impermeable cover to CPP-28,-31, and –79, described type of soil cover material, and inserted reference to new figure.	Supports description of work scope and new remedial design.
13	Pg. 2-11 Section 2.1	Redefined area to receive impermeable cover to CPP-28,-31, and –79, described type of soil cover material, and inserted reference to new figure	Supports description of work scope and new remedial design.
14	Pg. 2-11 Section 2.1.1	Redefined area to receive impermeable cover to CPP-28,-31, and –79 and updated references to appendices.	Supports description of work scope.
15	Pg. 2-21 Section 2.1.2	Redefined area to receive impermeable cover to CPP-28,-31, and –79.	Supports description of work scope.
16	Pg. 2-31 Section 2.1.3	Redefined area to receive impermeable cover to CPP-28,-31, and –79, described type of soil cover material, and added reference to new Engineering Design File. Removed text referring to original scope of work.	Supports description of work scope and new remedial design.
17	Pg. 2-41 Section 2-2	Added reference of NOV Agreement.	Referenced in revised document
18	Pg. 2-5/Table 2-1	Inserted references to appendices for Operations and Maintenance Plan and Health and Safetv Plan.	Provide locations of documents.

Item	Section/Page NO	Description	Justification
Remedial Design/Remedial Action Work Plan for Group 1 Tank Farm Interim Action (DOE/ID 10772) (continued)			
19	Pg. 2-6/Table 2-1	Inserted reference to appendix for Waste Management Plan and redefined soil cover as asphalt	Provide location of referenced document and support description of remedial design.
20	Pg. 2-7/Table 2-1	Inserted references to appendices for Waste Management Plan and Health and Safety Plan.	Provide locations of documents.
21	Pg. 2.9/ Section 2.6	Text inserted to describe revised scope of work inside the Tank Farm fence.	Supports description of work scope and new remedial design.
22	Pg. 2.9/ Section 2.7	Removed reference to ACMM 3994, an outdated document number and procedure, and replaced the soil cover description with asphalt.	Outdated procedure and soil cover description is consistent with revised design.
23	Pg. 2-10/ Section 2.73	Removed option of using poly-urea spray on coating for soil cover.	Soil cover description is consistent with revised design.
24	Pg. 2-11/ Section 2.73	Removed option of using poly-urea spray on coating for soil cover and revised scope of asphalt covering inside the Tank Farm to CPP-28,-31, and –79.	Soil cover description and area of application is consistent with revised design.
25	Pg. 2-11/ Section 2.10	Text updated to show completion of work to C-40 valve box.	Work completed.
26	Pg. *3-11* Section *3.0*	Reference to EDF for justifying asphalt as the soil cover inserted. Removed reference to Annendix **O.**	Soil cover description is consistent with revised design
27	Pg. *3-11* Section *3.1*	Added reference to new figure (Fig. *1-3)* and clarified text describing problem with patching existing liner.	Clarifies location of field work and problem with existing liner.
28	Pg. *3-41* Section *3-4*	Removed pond sump details.	Design of pond sump changed from original design.
29	Pg.*3-51* Section *3.4*	Updated description of areas to be covered with asphalt and removed discussion of poly-urea spray on coating.	Soil cover description and area of application is consistent with revised design.
30	Pg. *4-11* Section *4.1*	Divided design into two phases and describes the scope of each phase.	Consistency with NOV Agreement and to reflect work completed.
31	Pg. *4-11* Section *4.2*	Text added for describing process for biding Phase I and II work separately and awarding contracts.	Revised document divides the remedial action into two phases.
32	Pg. *4-31* Section *4.3.5*	Updated description of areas to be covered with asphalt, removed discussion of poly-urea spray on coating, and added reference to new figure (Fig. *1-3).*	Soil cover description and area of application is consistent with revised design. Clarifies location of field work.
33	Pg. *4-31* Section *4.3.7*	Added references to construction specifications located in annendices.	New appendices added
34	Pg. *4-31* Section *4.3.8*	Added reference to HASP in appendices.	Provides location to find document
35	Pg. *4-31* Section *4.3.9*	Added references to construction specifications located in appendices	New appendices added.
36	Pg. *4-41* Section 4.5	Added reference to HASP located in appendices.	Provides location to find document
37	Pg. *4-51* Section 4.5	Added reference to HASP located in appendices.	Provides location to find document
38	Pg. *4-51* Section *4.6*	Cost estimate updated to reflect division of work and remainder of work.	Shows remainder of cost for completion of remedial design

Item	Section/Page No	Description	Justification
Remedial Design/Remedial Action Work Plan for Group 1 Tank Farm Interim Action (DOE/ID 10772) (continued)			
39	Pg. 4-5/ Section 4.7	Project schedule updated to reflect division of work and schedule for deliverables. Added references to schedules located in appendices.	Updated to describe division of work and schedule for deliverables
40	Pg. 4-7/ Section 4.10	Changed date in citation for Waste Management Plan and added reference to WMP located in appendices	New date refers to latest revision of WMP
41	Pg. 4-7/ Section 4.11	Changed date in citation for Operation and Maintenance Plan and added reference to O&M Plan located in appendices	New date refers to latest revision of O&M Plan
42	Pg. 4-7/ Section 4.12	Changed date in citation for Waste Management Plan and added reference to WMP located in appendices	New date refers to latest revision of WMP
43	Pg. 4-81 Section 4.13	Changed date in citation for Health and Safety Plan and added reference to HASP located in appendices	New date refers to latest revision of HASP
44	References	Updated accordingly for documents added or removed	Document control
Appendix D-1– OU 3-13 Group 1, Tank Farm Interim Action, Soil Cover Justification (EDF–3824)			
45		New document, replaces EDF-ER-115	Soil cover justification.
Appendix E-1 – Construction Specification (SPC-269)			
		Original construction specification, replaced by SPC-458 and -472	Revised per NOV amendments to scope.
Appendix E-2 – Construction Specification (SPC-458), partial replacement of SPC-269			
48	Contents	Both Divisions and sub-divisions of work reduced	Revised scope of work and reflects completed work.
49	Section 010051 Pg. 1	Added task of installing 15kV cable	New scope
50	Section 01051/ Pg. 2	Grade finish stakes layout reduced to 25 ft from 50 ft. Requirement for placement of subbase stakes reduced to 0.01 ft of final grade from 0.2 ft.	Updated specification
51	Section 013001 Pg. 7	Added requirement to submit layout drawings, spare parts lists, and calculations	Updated specification
52	Section 020621 Pg. 2	Removed reference to clearing and grubbing	Work completed
53	Section 02430	Section removed.	Work completed
54	Section 02444	Section removed	Work completed
55	Section 02486	Section removed	Work completed
56	Section 02514	Replaced with Section 02742 of SPC-458. Revised asphalt specification, quality control testing, required submittals, and compaction requirement reduced to 92% density from 95%.	Updated specification
57	Section 025981 Pg. 3	Non-woven geotextile specification revised. Additional requirements added for delivery storage and handling of liner materials, installation of liner materials (i.e. wind and nuisance dirt precautions), and non-destructive testing.	Updated specification
58	Section 03301	Added requirement for expansion joint and requires red concrete to be used for all duct banks, added conditions for equipment bases and foundations, and details for finishing and curing concrete.	Updated specification
59	Section 03400	Removed specifications for pre-cast concrete	Work completed

Item	Section/Page NO.	Descridon	Justification
Appendix E-2 – Construction Spccitication (SPC-458), partial replacement of SPC-269 (continued)			
60	Section 09810	Section removed	Polyurea spray-on replaced with asphalt.
61	Section 15401	Revised section to combine work contained in 15401, 15480, and 15481. Section 15401 of SPC-458 added requirement to submit Butt fusion procedure, personnel qualifications, Operation and Maintenance Manuals for flow totalizer, pump, and calibration data for totalizer; added specifications for PVC components, polyethylene pipe, back-up rings, bolts, gaskets, vacuum breaker, sample valve, and for installation of joints, pipelines, pump, and controls. Section 15600 added to SPC-458 to provide greater detail for testing piping and pump, which was contained in Section 15181 of SPC-269.	Updated specification
62	Section 15480	Removed – see item 61	Updated specification
63	Section 15481	Removed – see item 61	Updated specification
64	Section 16000	Summary of work revised to reflect work completed in 2001 and 15kV cable to install.	New work scope
65	Section 16109	Original specification called for installation of weld receptacles. Revised specification calls for installation of heavy-duty duplex wall receptacles for 20 ampere service.	New work scope
66	Section 16124	New section	Updated specification
67	Section 16360	New section	Updated specification
68	Section 16370	Section removed	Updated specification
Appendix E-3 – Construction Specification (SPC-472), partial rcplaccmcnt of SPC-269			
69	Section 01005	Replaced polyurea spray on coating with asphalt and added installation of storm water drainpipe.	New work scope
70	Section 01051	Added requirement to submit as-built survey data and grade control plan.	Updated specification
71	Section 02200	Added load restrictions for work on Tank Farm. Replaced poly-urea with asphalt cover.	New work scope
72		Added requirement to submit layout drawings, spare parts lists, and calculations	Updated specification
73	Section 02430	Added use of HDPE storm water drain pipe	New work scope
74	Section 02576	New section for pavement sealing	New work scope
75	Section 02741	New section for plant mix pavement requiring submittal of Paving Plan and establishes a compaction density of 90%. Cost of field quality control testing to be covered by subcontractor	Updated specification
76	Schedule "X"	HDPE ballast tubes to be supplied by Government at no cost to mihcontractor	New work scope
Appendix F-l – Design Drawings (SPC-269)			
77		Original design drawings, replaced by SPC-458 and -472	Revised per NOV amendments to scope
Appendix F-2 – Design Drawings (SPC-458), partial replacement of SPC-269			
78	Dwg. 623728	Updated dwg. 515157, site plan for field work	Document control
79	Dwg. 623729	Updated dwg. 515158, drawing index	Document control
80	Dwg. 623730	Replaces 515159, no changes to body of drawing	Document control
81	Dwg. 623731	Replaces 515160 and shows completed and uncompleted work for Phase I.	Revised scope per NOV amendments

Item	Section/Page No.	Descrjdon	Justification
Appendix F-2 – Design Drawings (SPC-458), partial replacement of SPC-269 (continued)			
82	Dwg. 623732	Replaces 515164 and shows completed and uncompleted work for Phase I.	Revised scope per NOV amendments
83	Dwg. 623733	Replaces 515162 and shows changed in alignment 2 to Type 2A ditch design and calls for removal of existing asphalt sidewalk and pad.	Revised scope per NOV amendments
84	Dwg. 623734	Replaces 515166 and incorporates 2001 as-builts and provides details for constructing ditch along existing manhole.	Revised scope per NOV amendments
85	Dwg. 623735	Replaces 515167 and incorporates 2001 as-builts and reflects change in scope for Phase 1.	Revised scope per NOV amendments
86	Dwg. 623736	Replaces 515162 and reflects change in Phase I scope	Revised scope per NOV amendments
87	Dwg. 623737	Replaces 515168 and incorporates 2001 as-builts	Revised scope per NOV amendments
88	Dwg. 623738	Replaces 515171, incorporates 2001 as-builts, and reflects revised Phase I scope	Revised scope per NOV amendments
89	Dwg. 623739	Replaces 515172 and changes ditch type to Type 2 and 2A	Revised scope per NOV amendments
90	Dwg. 623740	Replaces 515173, , incorporates 2001 as-builts, and reflects revised Phase I scope	Revised scope per NOV amendments
91	Dwg. 623741	Replaces 515175, specifies Type 1 and 2 ditches, incorporates 2001 as-builts, and reflects revised Phase I scope. Dwg. 515175 specified Type 1.	Revised scope per NOV amendments
92	Dwg. 623742	Replaces 515176, incorporates 2001 as-builts, and reflects revised Phase I scope	Revised scope per NOV amendments
93	Dwg. 623743	Replaces 515177, incorporates 2001 as-builts, and reflects revised Phase I scone	Revised scope per NOV amendments
94	Dwg. 623744	Replaces 515192 and specifies new design for Type 2 ditch and introduces Type 2A ditch.	Revised scope per NOV amendments
95	Dwg. 623745	Replaces 515193 and revised height of concrete above pipes in head and end walls	Revised scope per NOV amendments
96	Dwg. 623747	Replaces 515198 and modifies headwall design	Revised scope per NOV amendments
97	Dwg. 623748	Replaces 515203 and provides added detail for rip-rap installation	Revised scope per NOV amendments
98	Dwg. 623750	Replaces 515179 and modifies elevation of leak collection sumn.	Revised scope per NOV amendments
99	Dwg. 623751	Replaces 515180, shows layout plan for ballast, incorporates 2001 as-builts, provides ballast bag detail, and modifies liner anchor details	Revised scope per NOV amendments
100	Dwg. 623752	Replaces 515181, shows details for anchoring secondary liner at bottom of pond, modifies liner anchoring at top of berm, and shows details for ballast.	Revised scope per NOV amendments
101	Dwg 623753	Replaces 515182 and modifies evaporation pond sump dimensions	Revised scope per NOV amendments
102	Dwg. 623754	Replaces 515183 and modifies electrical mounting rack base and sump pump pipe	Revised scope per NOV amendments
103	Dwg. 623755	Replaces 515191 andreflects Phase I scope of work	Revised scope per NOV amendments Revised scope per NOV amendments

Item	Section/Page No.	Descrjdon	Justification
104	Dwg. 623756	Replaces 515188 and modifies typical asphalt concrete detail and replaced polyurea with asphalt on portion of alignment 4	Revised scope per NOV amendments
105	Dwg. 623757	New drawing	Revised scope per NOV amendments
106	Dwg. 623758	New drawing	Revised scope per NOV amendments
107	Dwg. 623759	Replaces 515217	Revised scope per NOV amendments
108	Dwg. 623760	Replaces 515216	Revised scope per NOV amendments
109	Dwg. 623761	Replaces 515219	Revised scope per NOV amendments
110	Dwg. 623762	Replaces 515218	Revised scope per NOV amendments
111	Dwg. 623763	New drawing	Revised scope per NOV amendments
112	Dwg. 623764	New drawing	Revised scope per NOV amendments
113	Dwg. 623765	New drawing	Revised scope per NOV amendments
114	Dwg 185249	Added to specificationpackage for reference	Document control
Appendix F-3 – Design Drawings (SPC-472), partial replacement of SPC-269			
115	Dwg. 624400	New drawing, Site view and drawing index	Revised scope per NOV amendments
116	Dwg. 624401	New drawing, Drainage routing plan	Revised scope per NOV amendments
117	Dwg. 624402	New drawing, Paving plan, CPP-3 1	Revised scope per NOV amendments
118	Dwg. 624403	New drawing, Paving plan, CPP-28 and –79	Revised scope per NOV amendments
119	Dwg. 624404	New drawing, Detail and sections of asphalt cover	Revised scope per NOV amendments
Appendix H-1 – Construction Schedule (from RD/RA W P Rev. 0)			
120		Replaced with new construction schedules for Phase I and II	Outdated schedule
Appendix H-2 – Revised Phase I and II Construction Schedules			
121		Replaces original construction schedule	New schedule
Appendix J-1 – Detailed Cost Estimate (from RD/RA W P Rev. 0)			
122		Replaced by detailed cost estimates for Phase I and II	Outdated costs
Appendix J-2 – Revised Phase I Detailed Cost Estimate			
122		Cost estimate to complete Phase I	New cost estimate
Appendix J-3 – Revised Phase II Detailed Cost Estimate			
123		Cost estimate to complete Phase II	New cost estimate

Item	Section/Page NO.	Description	Justification
Appe	**dix K – Operations and Maintenance Plan (DOE/ID-10771)**		
124		Originally this appendix was for Other Procedures Relevant to the RA but has been replaced by O&M Plan	
125	Cover	Undated revision number and publish date and revised title	Document control
126	Title	Updated revision number and publish date and revised title	Document control
127	Abstract	Inserted reference to Notice of Violation affecting scope of remedial design	NOV modified remedial design
128	Contents	Removed Evaporation Pond Design document from appendix.	Document can be found in appendix of RD/RA Work Plan
129	Acronyms	Removed ECA, added NOV	Document control
130	Pg. 1-1/Section 1	Revised scope of work as amended by NOV and replaced poly-urea soil liner with asphalt	To make consistent with current scope
131	Pg. 2-1/Section 2	Inserted reference to Notice of Violation affecting scope of remedial design and updated list of interim activities to identify ones completed and ones to finish	To make consistent with current scope
132	Pg. 2-1/Section 2	Revised scope of work as amended by NOV and replaced poly-urea soil liner with asphalt	To make consistent with current scope
133	Pg. 2-5/Section 2	Added new figure to show select areas to be asphalt paved.	Supports description of scope of work
134	Pg. 3-1/Section 3	Added "Monitoring" to section heading and statement describing O&M Plan will be revised after completion of remedial action.	Reflects monitoring portion of section and need for updating Plan after further knowledge of the design is known.
135	Pg. 3-11 Section 3-1	Removed reference to poly-urea coating and added content describing inspection and maintenance of asphalt and radiological monitoring.	Asphalt replaced poly-urea coating
136	Pg. 3-11 Section 3-2	Added requirement to perform routine radiological surveys of ditches and culverts	RadCon suggestion
137	Pg. 3-21 Section 3-2	Added requirement to perform radiological surveys of ditches and culverts after precipitation events	RadCon suggestion
138	Pg. 3-31 Section 3-2	Table updated with requirements to perform radiological surveys of surface-sealed areas, ditches, and culverts and to perform inspections of the evaporation pond for sediment and debris build-up.	To make consistent with main body text
139	Pg. 3-31 Section 3.3	Lift station inspection and maintenance activities clarified and expanded	Incorporate all relevant inspection and maintenance information
140	Pg. 3-41 Section 3.4	Changed reference to Evaporation Pond Design document.	Document can be found in appendix of RD/RA Work Plan
141	Pg. 3-41 Section 3.4.3	Added items to list for inspection of sediment and clarified description of process for removal and management of sediments from structures	Clarifies maintenance actions
142	Pg. 3-51 Section 3.4.3	Added requirement to perform a waste determination of sediments following analysis.	To be used for proper management of waste.
143	Pg. 4-11 Section 4	Changed annual O&M reporting and content of reports.	Content of report changed to include all relevant information
144	Pg. 5-11 Section 5.2	Revised responsibilities of contractor project manager	To make consistent with latest role of contractor project manager

Item	Section/Page No.	Descridon	Justification
145	Pg. 5-1/ Section 5.3	Added project engineer or site operations manager to list of responsible individuals for the O&M Plan	Accountability for Plan
146	Reference	Added reference for Notice of Violation	Document control
Appendix L – Waste Management Plan (DOE/ID-10770)			
147		The WMP was revised to contain the requirements for characterizing wastes.	Expanded scope of WMP
148	Cover	Updated revision number. publish date. and revised title	Document control
149	Title	Updated revision number, publish date, and revised title	Document control
150	Abstract	Expanded scope of Plan to also cover Phase II	One project, TFIA
151	Acronyms	Updated list for changes in document	Document control
152	Pg. 1-1/Section 1	Clarified objective and expanded on scope of activities covered by Plan	Incorporation of Phase II
153	Pg. 1-1/ Section 1.1	New section	Clarifies purpose and objectives
154	Pg. 2-1/Section 2	Minor edit of sentence	Consistency with new scope
155	Pg. 2-3/Fig. 2-2	Minor edit of caption	Consistency with new scope
156	Pg. 2-4/Fig. 2-3	New figure showing areas inside Tank Farm to be covered in Phase II	Narrowed scope for Tank Farm
157	Pg. 3-1/Section 3	Changed section heading and revised text to agree with new table of notential wastes	Consistency with new scope
158	Pg. 3-1/ Section 3.1	Removed	Unnecessary text
159	Pg. 3-1/ Section 3.2	Removed	Unnecessary text
160	Pg. 3-2/Table 3-1	New Table, replaced table with estimated volumes of wastes	Waste volumes not consistent with new scope of work
161	Pg. 4-1/Section 4	New section for waste characterization	Waste characterization
162	Pa. 5-1/Section 5	New section for sampling wastes	Waste characterization
163	Pg. 6-1/Section 6	New section for waste characterization design basis	Waste characterization
164	Pg. 7-1/Section 7	New section for identifying and labeling samples for characterization	Waste characterization
165	Pg. 8-1/Section 8	New section for describing sampling procedure	Waste characterization
166	Pg. 9-1/Section 9	New section for documenting samples, identifying sampling equipment, sample containers, preservatives, and transportation	Waste characterization
167	Pg. 10-1/ Section 10 to Section 10.3.6	Replaces section 4 of original WMP. Section content completely revised.	Consistency with new scope of field work
168	Pg. 11-1/ Section 11	New section for management and disposition of wastes	Added requirements for management and disposition of wastes
169	Pg. 12-1/ Section 12	New section for tracking, reporting, and record keeping for wastes	
170	References	Added and removed references as necessary	Document control
171	Appendix A	Appendix added for Sampling and Analysis Plan Table	Requirement for sample analysis and management
Appendix M – Health and Safety Plan (INEEL/Ext-2000-00194)			
172		Replaces Waste Management Plan that was moved to Appendix L. No changes to HASP document.	

Item	Section/Page No.	Description	Justification
Appendix N – List of Changes to RD/RA WP Package			
173		Replaces HASP that was moved to Appendix M and is new appendix comprised of a list of changes to RD/RA WP and associated documents.	
Appendix O – Polyurea Demonstration Report			
174		Deleted appendix in response to change in soil covering.	

Documentation of Agreement to Modify Phase I of the Tank Farm Interim Action

Department of Energy
Idaho Operations Office
850 Energy Drive
Idaho Falls, Idaho 83401-1563

June 9,2003

Mr. Wayne Pierre, Team Leader
Environmental Cleanup Office
U.S. Environmental Protection Agency
Region X
1200 Sixth Avenue
Seattle, Washington 98101

Mr. Dean Nygard, Site Remediation Manager
Idaho Department of Environmental Quality
1410 N. Hilton
Boise, Idaho 83706

SUBJECT Documentation of Agreement to Modify Phase I of the Tank Farm Interim Action - (EM-ER-03-140)

Dear Mr. Pierre and Mr. Nygard:

This letter is to document the agreement that was reached during the Waste Area Group 3 agency conference call on March 20,2003. During this conference call, it was determined that some of the areas outside the Tank Farm fence that were originally shown in the Remedial Design/Remedial Action (RD/RA) Work Plan for Group 1 Tank Farm Interim Action (DOWID-10772) as being covered with pavement or polyurea will not need the covering. The Agreement to Resolve Dispute (OCC-03-025) does not require the entire Tank Farm surface inside the fence be covered. It is reasonable to assume that some areas outside of the Tank Farm fence also do not need to be covered. Surface water infiltration will not be diverted to these areas. Some of these areas are small and do not impact the overall reduction of infiltration. Some of those areas simply cannot be covered.

The enclosed drawings show the areas surrounding the Tank Farm and the corresponding storm water drainage system to the evaporation pond. The shaded and solid blue areas correspond to ditches, paving, and other activities that were previously completed. The green areas indicate ditches, paving, and other activities that will be completed this year. The shaded red areas are those that will not be covered under the agreement reached on March 20th. Each of the red areas is numbered on the figure and described below. However, some of Areas 1 and 5 will be paved.

Area 1: This area consists of a steep berm around the CPP-701 fuel storage tanks. A small area on the north side of the berm will be paved. This paved area will be approximately 10-ft wide and connects to the existing paved ditch.

Area 2: This area is fairly flat and is located on the west side of Beech St. A large generator is permanently installed in this area that is hard wired into CPP-606. In addition, this area congested with numerous interferences. .

Area 3: This area consists of a small strip between the Tank Farm fence and the ditch running north along Beech St. This area will not be paved because it is impractical to grade and pave this area when the adjacent area inside the Tank Farm fence is not being covered.

Area 4: This Is a small flat area southeast of the Tank Farm on the west side of Beech St. Due to the high slope, drainage from this area would be directed into a large unpaved area to the west.

Area 5: Thls area is directly south of the Tank Farm, the stack, and CPP-605. The area around the stack will be paved where it is advantageous to sloping to the ditch that will be installed. Any area that would promote drainage to the existing buildings or inside the tank farm fence will not be paved. Most of this area lies in a low spot and during the call, a question was raised concerning storm water runoff near an emergency exit next to one of the buildings. The building operations personnel were contacted and it was determined that no water infiltration into the building occurred at the entry way in question.

Area 6: This area consists of a steep berm around two storage tanks. Paving this area is not feasible due to these obstructions.

Area 7: The south portion of this area is on a steep berm and the north portion also contains a smaller, but steep berm. Paving these berms is not feasible.

Area 8: This area consists of planter boxes with landscape fabric and gravel around CPP-699. Paving this area and installing the section of ditch along the west side of the building will require removal of the existing sidewalk and modification of the west entrance to the building. The ditch was originally intended to collect flow off of the east side of the Tank Farm, since this area of the tank farm is not being covered, installation of the ditch will provide no additional benefit.

'Area 9: This area is just north of the Tank Farm around the existing concrete pad and an office trailer. The ditch and paving in this area will not be completed because these areas are currently being used as materials storage and mockup areas by the Tank Farm closure project.

The remedial action objectives for the Tank Farm interim action will not be changed by these modifications and the cover installed will meet the requirements of the OU 3-13 Record of Decision (DOE/ID-10660). These modifications, and those for Phase II, will be included in the revised RD/RA Work Plan, which will be sent to you in August 2003.

If you have questions or need additional information, please contact Rachel Hall at (208)526-1661.

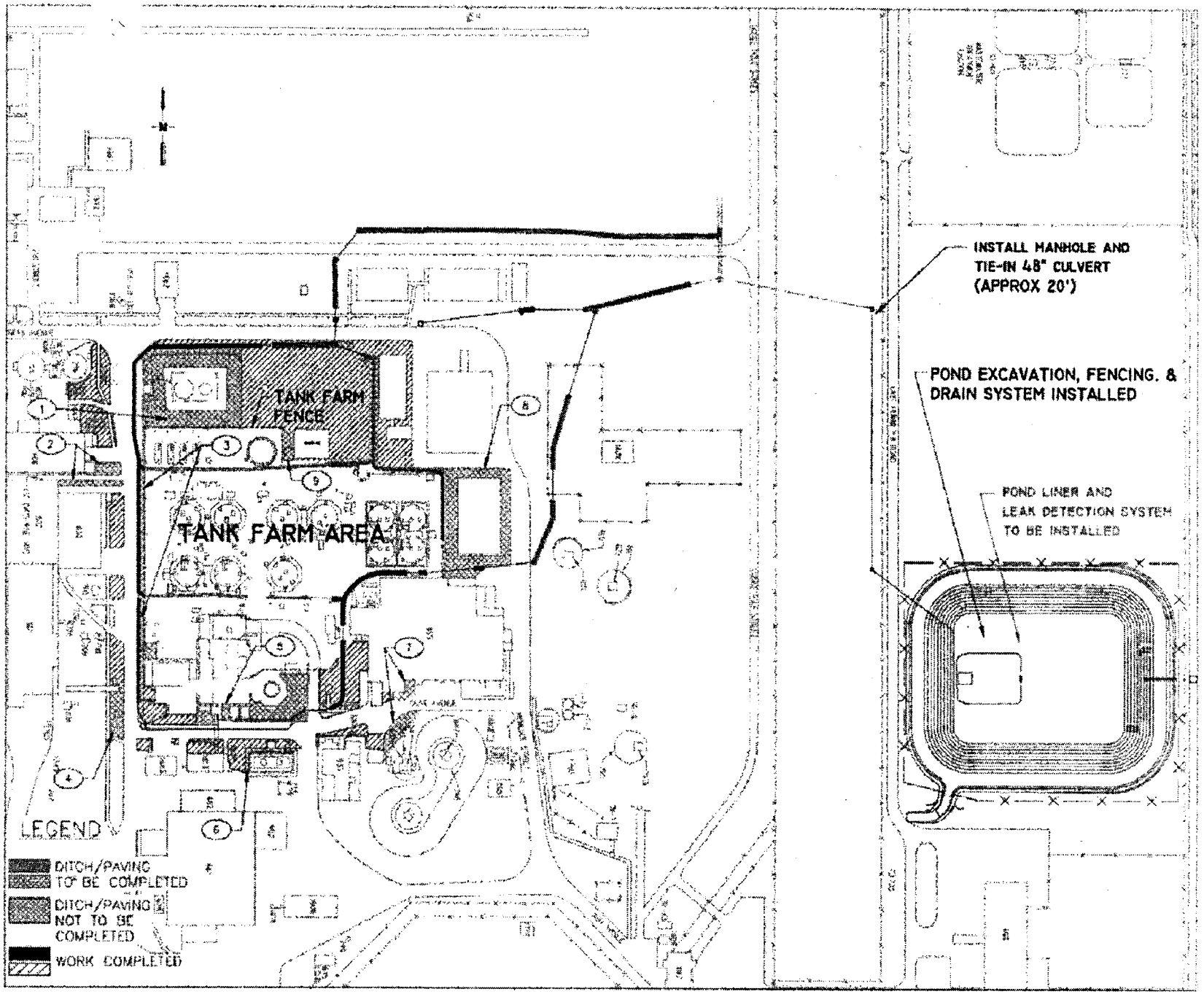
Sincerely.

Kathleen E Hain

Kathleen E. Hain, Lead
Environmental Restoration Program

Enclosure

cc: M. English, IDHW, DEQ, 1410 N. Hilton, Boise, ID 83706
D. Koch, IDHW, DEQ, 1410 N. Hilton, Boise, ID 83706
T. Kluk, DOE-HQ, EM-441
R. Cummings, DOE-HQ, EM 441


INSTALL MANHOLE AND
TIE-IN 48" CULVERT
(APPROX 20')
POND EXCAVATION, FENCING, &
DRAIN SYSTEM INSTALLED
POND LINER AND
LEAK DETECTION SYSTEM
TO BE INSTALLED
TANK FARM
FENCE
TANK FARM AREA
LEGEND
DITCH/PAVING
TO BE COMPLETED
DITCH/PAVING
NOT TO BE
COMPLETED
WORK COMPLETED

Final Original Copy of Agreement to Resolve Dispute
Waste Area Group 3, Operable Unit 3-13

Department of Energy
Idaho Operations Office
850 Energy Drive
Idaho Falls, Idaho 83401-1563

COPY

March 4, 2003

Mr. Darrell G. Early,
Deputy Attorney General
Office of the Attorney General State of Idaho
1410 N. Hilton, Second Fbor
Boise, Idaho 83706

Ms. Cyndy Mackey
Assistant Regional Counsel
Environmental Protection Agency
Mail Stop ORC - 58
EPA Region 10
1200 6th Avenue
Seattle, WA 98101

SUBJECT: Final Original Copy of Agreement to Resolve Dispute Waste Area Group 3, Operable Unit 3-13 - OCC-03-025

Dear Mr. Early and Ms. Mackey:

Enclosed is your fully executed original copy of the Agreement to Resolve Dispute, effective February 21, 2003. Thank-you for your cooperation and assistance in bringing this matter to a prompt resolution.

Sincerely,

Brett R. Bowhan
Deputy Chief Counsel

Enclosure

cc: Orville Green, IDEQ, w/o enc.
Michael Gearheard, EPA Region 10, w/o enc.
Ann Williamson, EPA Region 10, w/o enc.

OCC-03-025
March 4, 2003

EXTERNAL bcc DISTRIBUTION:
Ray Swenson, BBWI, MS-3940, w/enc.
Sue Stiger, BBWI, MS-3898, w/enc.

ID DISTRIBUTION
B. Leake, MS-1222, w/enc.
K. Hain, MS-1222, w/enc.
R. Hall, MS-1222, w/enc
R. Stallman, MS-1203, w/o enc.
L. Green, MS-1222, w/o enc.

CONCURRENCE:

RECORD NOTES:

1. This letter was written to distribute the Final Original Copy of Agreement to Resolve Dispute Waste Area Group 3, Operable Unit 313.
2. This letter was written by B. Bowhan
3. This letter/memo doses OATS number N/A
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.

BRBowhan, OCC, lcripps, 6-0276, March 4, 2003, O:\Division\occ\letterlog\03-025

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, *IDAHO* DEPARTMENT OF ENVIRONMENTAL QUALITY, UNITED STATES DEPARTMENT OF ENERGY

IN THE MATTER OF:	
THE DECEMBER 04,2002, NOTICE OF VIOLATION AND THE DECEMBER 20, 2002, STATEMENT OF DISPUTE	AGREEMENT TO RESOLVE DISPUTE
THE U.S. DEPARTMENT OF ENERGY IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY, IDAHO FALLS, IDAHO,	

1. INTRODUCTION

1.1 This "Agreement to Resolve Dispute" (Agreement) is a settlement of a dispute arising under the 1991 Federal Facility Agreement and Consent Order (FFA/CO) at the Idaho National Engineering and Environmental Laboratory (INEEL) related to the Notice of Violation (NOV) issued by the Environmental Protection Agency, Region 10 (EPA) dated December 4, 2002. The parties to this Agreement (the parties) are the U.S. Environmental Protection Agency (EPA), the Idaho Department of Environmental Quality (IDEQ) and the U.S. Department of Energy (DOE).

1.2 The NOV alleged a violation of failing to submit the Remedial Action Report for Operable Unit (OU) 3-13, Group 1 (RA Report) in accordance with the established deadline. Specifically, the NOV alleged violations due to DOE's failure to complete work as required under the Remedial Design / Remedial Action (RD/RA) Work Plan for the Group 1 *Tank* Farm Interim Action.

1.3 The parties have resolved all allegations in the NOV and *this* dispute by agreement, which includes: (1) payment of a stipulated penalty in the mount of $175,000, (2) revised milestones and scope for the Tank Farm Soil Interim Action (Interim Action); (3) revision of the Record of Decision (ROD) for OU 3-13 through an Explanation of Significant Differences (ESD); and (4) an option for DOE, in collaboration with the EPA and IDEQ, to evaluate and accelerate the determination and implementation of the permanent remedy for the Tank Farm Soil, or in the alternative, to implement the remaining portions of the Tank Farm Soil Interim Action by installing an infiltration barrier over the remaining areas in the tank farm in stages as the tanks are closed.

1.4 This Agreement is expected *to* have the following benefits:

1.4.1 The flux of radionuclide contamination migrating to the groundwater is expected to be significantly reduced The remedial action objective was to

reduce the overall infiltration of precipitation in the tank farm by approximately 80% in order to minimize the flux of contaminants to the groundwater (DOE/ID-10660, OU 3-13 Record of Decision Declaration, Page IV). Completing the interim action as modified by *this* Agreement is expected to reduce recharge to the perched water in *the* area by over 99% of the estimated contamination released to the soil in the Tank Farm. By placing infiltration barriers over these hot spots, the infiltration of precipitation through the contaminated soil and the resultant contaminant flux is expected to be reduced significantly, which may surpass in achievement the intent of the interim action to minimize contaminant migration to the aquifer.

1.4.2 The overall risk reduction in the Tank Farm may be accelerated DOE believes *this* approach continues to support DOE's desire to address the risk associated with the tank liquids on an accelerated schedule as established in the "Environmental Management Performance Management Plan for Accelerating Cleanup of the INEEL" in parallel with reducing the risks fiom the contaminated soils. Therefore, the overall risk associated with the tank farm may be addressed earlier than previously planned. This approach also facilitates the DOE, EPA, and IDEQ joint efforts to work towards acceleration of a final remedy.

1.5 This Agreement is limited to the dispute arising fiom the December 4,2002 NOV. Nothing in *this* Agreement shall be construed to affect or relate to any other operable unit except as specifically provided herein, Nothing herein shall be construed to imply prior approval of any remedy to be selected for OU 3-14.

2. BACKGROUND

2.1 On December 9,1991, EPA, IDEQ and DOE entered into the FFA/CO for the investigation and cleanup of INEEL. The *FFNCO* was entered into pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601 et seq., the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6901 *et* seq., and the Hazardous Waste Management Act, Idaho Code § 39-4401, et *seq.*

2.2 The FFA/CO establishes requirements for: (a) identification and performance of interim cleanup actions, (b) performance of investigations to determine fully the nature and extent of threats to public health or welfare or the environment caused by releases of hazardous substances, (c) performance of studies to identify, evaluate and select cleanup actions, (d) implementation of selected cleanup actions and (e) compliance with federal and state hazardous waste laws.

2.3 The INEEL site is divided into ten waste area groups (WAGs). Each WAG contains several operable units (OU). The operable units generally cover specific geographic areas at the site, but may cover specific activities.

2.4 The Record of Decision (ROD), dated October 1999, for OU 3-13, Group 1, established an interim action for contaminated soil surrounding underground storage tanks (Tank Farm Soil) at WAG 3, the Idaho Nuclear Technology and Engineering Center.

2.5 The permanent remedy for the Tank Farm Soil is currently under OU 3-14.

2.6 The ROD for OU 3-13, Group 1, required the installation and maintenance of institutional controls to prevent public exposure to the Tank Farm Soil and engineering controls to reduce water infiltrating the Tank Farm Soil. The engineering controls to reduce surface water infiltration included installation of a temporary cover over the tank farm area to divert precipitation, installation or improvement of diversion channels, installation of a lined evaporation pond, and other drainage improvements to minimize moisture infiltration and mobilization of contaminants.

2.7 A schedule for completion of the interim action activities was established in the RD/RA Work Plan. Pursuant to that schedule, activities were to be completed and a Remedial Action Report (RA Report) was due by not later than July 29, 2002.

2.8 DOE requested an extension by letter dated August 30, 2001, which was denied by letter dated September 6, 2001 (IDEQ), and September 19, 2001 (EPA).

2.9 During the week of January 28, 2002, EPA conducted an inspection of the Idaho National Environmental and Engineering Laboratory (INEEL).

2.10 Although DOE submitted an Interim RA Report on July 26, 2002, it did not demonstrate compliance with the requirements of the RD/RA Work Plan, and therefore, of the FFA/CO. The Interim RA Report described activities that were not completed pursuant to the requirements of the RD/RA Work Plan.

2.11 EPA issued a Notice of Violation and Penalty Assessment dated December 4, 2002, as described in Sections 1.1 and 1.2. DOE responded with a Statement of Dispute, dated December 20, 2002, elevating this matter to the Dispute Resolution Committee (DRC) under the FFA/CO Part IX. On January 13, 2003, EPA transmitted a Statement of Position in response to the DOE Statement of Dispute.

2.12 The DRC has resolved this dispute by this Agreement, which fulfills the requirement for a written decision signed by all Parties under paragraph 9.2(e) of the FFA/CO.

AGREEMENT

3. The parties hereby agree to the following terms and conditions to resolve the NOV and dispute. The enforceable milestones (i.e., deadlines) in the OU 3-13, Group 1 RD/RA Work Plan are superceded by this Agreement.

3.1 DOE will continue to pursue acceleration of tank cleaning and closures.

3.2 DOE shall complete the following Interim Action Milestones:

3.2.1 Complete and put into operation the following work outside the tank farm fence: lining ditches, culvert installation, and lining the evaporation pond. This work shall be completed, and DOE will provide a letter to the IDEQ and EPA certifying completion of this work, by the planned date of 9/30/03 with an enforceable milestone date of 12/31/03.

3.2.2 Place an infiltration barrier[1] over the affected areas of release sites CPP-28, CPP-31, and CPP-79 in the tank farm, and provide a letter to the IDEQ and EPA certifying completion of this work, by the enforceable milestone date of 9/30/04. The installation of the barrier is expected to reduce the infiltration of precipitation through the principal soil contamination areas by significantly mare than 80%, meeting the intent of the interim action.

3.3 .DOE shall complete, by 12/31/03, a revision of the data quality objectives (DQOs) as a modification to the existing RI/FS Work Plan for the OU 3-14 RI/FS. This work is intended to identify data gaps and evaluate the feasibility of accelerating the OU 3-14 ROD for the Tank Farm Soil.

3.3.1 DOE, EPA, and IDEQ agree to work collaboratively to expedite a phased implementation of the Tank Farm Soil permanent remedy. DOE, EPA, and IDEQ agree to refine the planned date for the OU 3-14 ROD after the DQOs are established. Until that date can be more accurately determined, DOE-ID agrees to a planned date of 12/31/06 for completion of the OU 3-14 ROD. The current enforceable deadline date for the draft ROD is May 2010. The sequencing of tank closures and the schedule for Tank Farm Soil remediation will be integrated to occur in stages.

3.3.2 If any party deems it infeasible to pursue an early permanent remedy as described in § 3.3.1 above, DOE will install an infiltration barrier over the remaining areas in the Tank Farm as the tanks are closed.

3.3.3 DOE will submit the draft Remedial Action Report that will include a draft Tank Farm Interim Action Operations & Maintenance (O&M) Plan, by the enforceable milestone date of 5/31/05 for that portion of work set forth in § 3.2.1 and § 3.2.2. If it is deemed infeasible to pursue an early permanent remedy under § 3.3.2 above, the O&M Plan will include a plan and schedule for installation of the infiltration barrier over the remaining

[1] The term "infiltration barrier" means any of the low permeable surfaces such as concrete, asphalt, HDPE, polyurea, or temporary enclosures that achieve the Remedial Action Objectives identified in the OU 3-13 ROD. Should changes in the type of low permeability barrier be contemplated fiom those identified in the Tank Farm Interim Action RD/RA Work Plan and per the results of DOE's treatability study, DOE will propose revisions in accordance with the FFA/CO change process.

areas in the Tank Farm as the tanks are closed. O&M will be per the FFMCO.

3.4 DOE agrees to separate out the non-Tank Farm Soil components fiom the OU 3-14 RVFS (CPP-23, CPP-61, CPP-81, CPP-82) and prepare a draft ESD to the OU 3-13 ROD to address these components, to be submitted to the IDEQ and EPA by the enforceable milestone date of 12/31/03. In addition, DOE may, in the draft ESD, propose addressing newly identified WAG 3 CERCLA sites. DOE may also, in the draft ESD, propose addressing the WAG 3 final groundwater decision as part of OU-3-13. Agency review of the ESD shall be as specified in the FFMCO for a primary document and nothing herein shall be deemed or construed as a pre-approval of the matters proposed in the ESD.

3.5 Payment of Stipulated Penalty: DOE shall, within ninety (90) days of the effective date of this Agreement pay a stipulated penalty to EPA in the amount of One Hundred Seventy Five Thousand Dollars ($175,000). The stipulated penalty payment shall identify INEEL, site 10A9, and shall be sent to the following address with a copy to the EPA Remedial Project Manager:

Mellon Bank
EPA Region-10
ATTN: Superfund Accounting
P. O. Box 360903M
Pittsburg, PA 15251

3.6 General Provisions

3.6.1 In the event that DOE fails to comply with any provision of this Agreement, EPA and IDEQ reserve the right to pursue any remedy available under the FFA/CO, including those remedies reserved under part XXXI of the FFA/CO.

3.6.2 Only the enforceable milestone dates expressly so established by this Agreement are enforceable dates. All other dates or schedules discussed in this Agreement, including planned dates, are not enforceable dates and shall not be subject to penalties.

3.6.3 The four enforceable milestone dates established by this Agreement are as follows:

(a) 12/31/03 - per § 3.2.1 complete and put into operation the work outside the tank farm fence and provide a letter to the IDEQ and EPA certifying completion of this work

(b) 12/31/03 - per § 3.4 submit draft ESD to EPA and IDEQ

(c) 09/30/04 - per § 3.2.2 place infiltration barrier and provide a letter to the IDEQ and EPA certifying completion of this work

(d) 5/31/05 – per § 3.3.3 submit draft Remedial Action Report

3.6.4 The enforceable milestone dates set forth in this Agreement shall be subject to stipulated penalties in accordance with part XI of the FFA/CO. The parties agree that this Agreement resolves all disputed matters relating to the NOV and this dispute. EPA and IDEQ agree that they will not in the future compel compliance or assess stipulated penalties with respect to the previous deadlines that have been superseded by this Agreement.

3.6.5 This Agreement only addresses the Tank Farm Soil Interim Action and the scope of the OU 3-14 RI/FS as set forth in § 3.4, and shall not affect any other milestones or enforceable requirements under the FFA/CO.

3.6.6 No provisions of this Agreement shall be interpreted to require obligation or payment of funds in contravention of the Anti-Deficiency Act, 31 U.S.C. § 1341.

3.6.7 Nothing in this Agreement shall constitute an admission on the part of the parties, in whole or part, in any proceeding except in a proceeding to enforce this Agreement.

3.6.8 The effective date of this Agreement shall be the date on which it has been signed by all three signatories.

3.6.9 EPA, IDEQ and DOE individually certify that the signatories to this Agreement have the authority to bind their respective agencies to the requirements of this Agreement.

IT IS SO AGREED:

By: _____ Date: 20 Feb 2003

Michael Gearheard, Director
Office of Environmental Cleanup
Region 10
U.S. Environmental Protection Agency

IT IS SO AGREED:

By: Orville Green Date: 2-21-03

Orville Green, Administrator
Waste Management and Remediation Division
Idaho Department of Environmental Quality

IT IS SO AGREED:

By: Robert M Stallman Date: 2-20-03

Robert M. Stallman
Acting Assistant Manager
Environmental Management
U.S. Department of Energy
Idaho Operations Office